

FY 2021 **ANNUAL** **REPORT**

**PALAWAN COUNCIL
FOR SUSTAINABLE
DEVELOPMENT STAFF**



2021





INTRODUCTORY MESSAGE OF THE EXECUTIVE DIRECTOR

Isang Makakalikasang Araw sa ating lahat!

To say that 2021 was a challenge is an understatement. The PCSDS has endured countless adjustments and rendered a much-needed resilience to top the first year since COVID-19 changed the course of our lives; and in our case, our system of implementing sustainable development in Palawan.

The PCSD and the staff continue to exemplify the core values of PCSD despite limited face-to-face interactions. Looking back, I can attest that we still adhere to efficient ways in order to (1) protect our staff; (2) keep our organization strong; and (3) be there for our clients and partners for the effective and efficient delivery of high-quality service.

This year, our office was faced with the aftermath of the COVID-19 restrictions and working with what we currently have. This meant that we focused on the welfare of our staff in order to gain quality over quantity outputs. Furthermore, we were also concerned with the perpetuation of our local, national, and international partners who were gracious enough to continue supporting our humble institution. In turn, we are steadfast in aligning our projects with world-class standards and be at the forefront in maintaining our relationship with our local community, backed with scientific-based data to ensure that we work with the best resources possible.

More specifically, our accomplishments have shown an increase in terms of awareness of the recurring issues and discovering ways to address the new ones. The adjustments and solutions were all based on years of experience and trust in the process.

With that said, I am proud of the outstanding efforts that the PCSDS had shown, notwithstanding the storms passed. Our continuing commitment to carry out our mandates and functions through hard work and efficiency has resulted in outputs that contributed to the wellbeing and welfare of our people and communities. 2021 has been a year of proving our fortitude as we work together with our stakeholders and partners.

Let us look forward for a better future.

Maraming Salamat sa inyong lahat!


TEODORO JOSE S. MATTA, Esq.
Executive Director



**PALAWAN COUNCIL
FOR SUSTAINABLE
DEVELOPMENT STAFF**

VISITORS

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I. EXECUTIVE SUMMARY

Enacted in 1992, Republic Act (R.A.) No. 7611, or the Strategic Environmental Plan (SEP) for Palawan Act, provided for the adoption of the SEP as a comprehensive framework to guide the sustainable development of Palawan. With it came the Environmentally Critical Areas Network (ECAN), a graded system of protection and development control over the whole of Palawan that serves as the main strategy of the SEP. The SEP and ECAN guide the public and private sectors in conservation and development planning and policy formulation and in regulating the entry of development projects.

For 2021, the PCSD and its professional support staff, the PCSD Staff, continued their respective authorities in implementing Republic Act (R.A.) No. 7611 and other mandated laws in Palawan, the implementation of which are linked to the 17 UN Sustainable Development Goals (SDGs). The agency attained and, in some cases, exceeded its targets for the year under the seven activities of the Palawan ECAN (Environmentally Critical Areas Network) Management Program, as committed under the General Appropriations Act (GAA) of 2021. The agency's budget utilization rate (BUR) in 2021 was **99.45%**, which is primarily due to limitations in movement of PCSDS and partners brought about by the present COVID-19 pandemic and the implementation of a nationwide community quarantine. Nevertheless, the current social media platforms – using Zoom cloud meeting and Microsoft Office Teams – did help tremendously in reaching our field staff, PCSD Council members outside of Palawan, and networking with our SD partners.

The PCSD and the PCSDS focused their activities on the following areas:

- ❖ **RULE SETTING AND GOVERNANCE.** These include the crafting and implementation of policies and plans for environment and sustainable development including responses to the COVID 19 Pandemic, the challenges related to the West Philippine Sea, the Wildlife Act, Chainsaw Act, and the Ecological Solid Waste Management Act.
- ❖ **BEHAVIOUR CHANGE.** The continuing efforts towards a more caring citizenry for the environment while aspiring for an inclusive development targeted our people through innovative and creative efforts and strategies. We took advantage of the social media and the support of our partners, especially the local government units, the civil society and the private sector.
- ❖ **SYSTEMS AND NETWORKS.** The ECAN Zoning Maps, as the main strategy to implement the SEP on the road to sustainable development, are being updated in collaboration with partner LGUs to be more environmentally, economically, and socially relevant.
- ❖ **KNOWLEDGE GENERATION AND MANAGEMENT.** The PCSDS and partners carry on their efforts to better understand our environment through scientific research and seek innovative solutions for better sustainable development decisions and actions.
- ❖ **PARTNER ENGAGEMENT.** Key to attaining success in the implementation of PCSD mandates is working together as a community of practice to strengthen sustainable development governance in the province. Partnerships are continuously being established and pursued with entities based within the province, at the national and international area of cooperation.

II. OPERATING AND FINANCIAL HIGHLIGHTS OF ACCOMPLISHMENTS

A. Office Performance

1. Rule Setting and Governance

The PCSD Staff convened twelve (12) regular PCSD meetings and twenty-seven (27) committee meetings, including: ten (10) meetings of the PCSD Adjudication Board (PAB), eleven (11) meetings of the Environmental and Natural Resources Committee (ENRC), four (4) joint meetings of PAB and ENRC, one (1) meeting of the Security and Safety Committee, and one (1) meeting of the Tribal Affairs Committee.

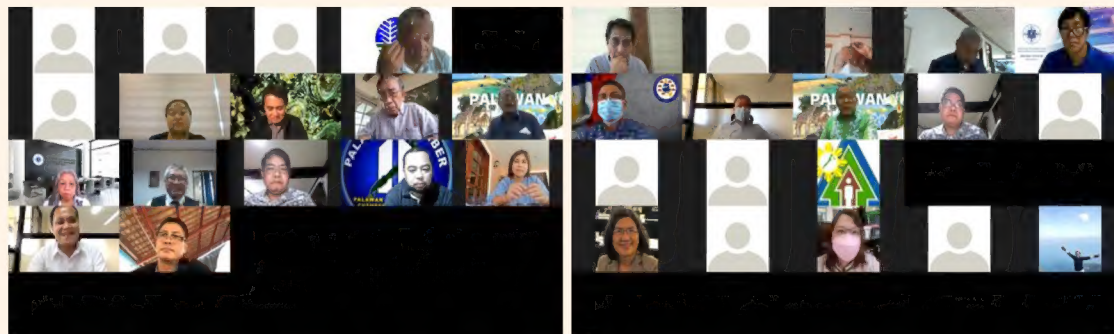


Figure 1. (Left and Right) The Palawan Council for Sustainable Development (PCSD), also known as The Council, during one of its regular meeting. With current Covid-19 pandemic, the PCSD has conducted most of its meetings virtually (via Zoom conference).

The Council passed and adopted thirty-nine (39) resolutions (see **Section III-C “Policies Issued”** for the table of resolutions issued).

In the case of the PCSD Environment and Natural Resources (ENR) Committee, five (5) resolutions were passed and adopted, and were later approved and issued by the PCSD *En Banc*. (see **Section III-C “Policies Issued”** for the table of resolutions issued)

Moreover, from the ten (10) PAB meetings conducted, a total of **twenty (20) cases** were heard, and **twenty-seven (27) administrative cases** were resolved.



Figure 2. (Left) The PCSD Adjudication Board (PAB) during its meeting on 30 July 2021, while observing social distancing and other minimum health standards. (Right) The PAB virtual meeting on 29 April 2021 via Zoom conference.



Figure 3. (Left) The PAB during its face-to-face meeting on 18 March 2021, practicing social distancing and other health standards. (Right) PCSDS Executive Director Atty. Teodoro Jose Matta (right-most) with other PAB members during their meeting on 6 August 2021.

2. Operations: Palawan ECAN Management Program

The Palawan ECAN Management Program of PCSDS aims to (a) protect and conserve core zones and other High Value Conservation Areas (HCVAs) of Palawan, including the threatened unique wildlife species and habitats; and (b) improve knowledge of the interactions between humans particularly the indigenous peoples (IPs) and other marginalized communities and the Palawan environment.

Working in convergence with partner institutions, particularly with LGUs, other concerned agencies, and civil society organizations, the said program can be a good platform to harmonize the three (3) core elements of sustainable development cum security: environmental protection, social inclusion and economic growth.

Implemented under the Program Expenditure Classification (PREXC) of DBM since 2017, the program is composed of the following major activities/components:

a. Advocacy, Communications, and Education

This component of the program aims to enhance the biological sensitivity of the people, train them to become effective managers and stewards of ECAN and promote public awareness to enable local communities to become fully involved in the conservation and sustainable use of resources. It is being implemented by the ECAN Education and Extension Division (EEED), which also handles the operations of the Palawan Sustainable Development Training Institute (PSDTI) in Puerto Princesa City. The training institute serves as a venue for environmental trainings, conferences, and seminars to develop the skills and competency standards of ECAN managers and local stakeholders on sustainability science, human ecology, and climate change.

❖ Environmental Education and Awareness

The attainment of sustainable development calls for interconnection and integration of society, economy, and environment. Considering the important role of communities, the PCSD is maximizing their participation by raising consciousness and ultimately, behavioral change in environmental management. For 2021, amid the Covid-19 pandemic, the PCSD staff celebrated the 29th Anniversary of the Republic Act No. 7611 or the Strategic Environmental Plan (SEP) for Palawan Act via various virtual events. These

include virtual contests on art, spoken word poetry, and “Plantito/Plantita” photoblog (see Figure 4).



Figure 4. The poster announcements for the PCSDS contests on spoken word poetry (Left) and Plantito/Plantita photoblog (Right) as part of the SEP 29th Anniversary Celebration.

The **2021 Youth Sustainability Virtual Camp** was organized via Zoom on 21-22 October 2021 and was attended by 79 participants. It also managed to reach around 2,300 individuals during the PCSDS Facebook livestream (see Figures 5-6).

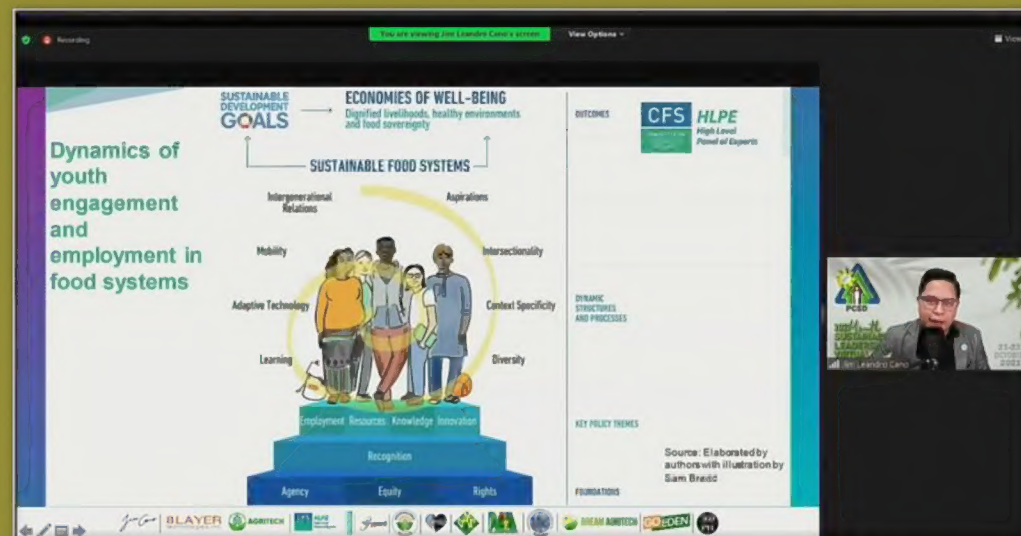


Figure 5. Director Jim Leandro Cano of Agritech and Business Solutions presenting during the 2021 Youth Sustainability Virtual Camp.



Figure 6. (Left) Promotional poster of the Virtual Camp, showcasing the resource speakers during the said event. (Right) Statistics of the live Virtual Camp via Facebook.

In addition, the PCSD Staff organized a total of **sixty-six (66)** information, education, and communication (IEC) campaigns to communities, public and private schools, and other groups across 12 municipalities in Palawan and in the City of Puerto Princesa. This include **seventeen (17)** campaigns led by EEED, and **forty-nine (49)** campaigns spearheaded by the District Management Divisions (DMDs) (see Figures 7-9). Meanwhile, the agency's Conservation Campaign activities mostly focused on integrating the Palawan environment on various environmental events, partnerships, and celebrations, promoting the PCSDS' advocacy on sustainability and biosphere in 19 programs. The staff were able to reach a wide range of different stakeholders were reached through these campaigns, ranging from elementary and high school students to barangay officials and members of the ECAN Boards. The staff also co-organized eight (8) digital/physical exhibits which featured the PCSD program, activities and projects, the Palawan endemic species, as well as interactive programs for visitors such as art activities and photo opportunities.



Figure 7. (Left) IEC orientation on PCSD policies and other environmental laws conducted to the IEC Team of MENRO-Bataraza on January 2021. (Center) The PCSD Staff during the IEC activity in Barangay Tagusao, Quezon, Palawan on 6 April 2021. (Right) IEC campaign in Barangay Pulot, Sofronio Española, Palawan, on 29 July 2021.



Figure 8. (Left) Participants during the IEC campaign in Barangay Liminangcong, Taytay, Palawan on 10 February 2021. (Center) IEC campaign at the Barangay Hall of Barangay San Nicolas, Linapacan, Palawan, on 10 February 2021. (Right) IEC campaign in Barangay Mabini, El Nido, Palawan on 21 April 2021.



Figure 9. IEC activities, co-organized by PCSDS, MLGU-Bataraza, and DENR CENRO Brooke's Point, at the Barangays of Tarusan, Buliluyan, and Sapa, Bataraza, Palawan on November 2021.

The PCSDS is also able to introduce the Kiddie and Youth Wildlife Savers Clubs, where the agency has chosen ambassadors for the kiddie and youth sectors to present the features of the Palawan Biodiversity Resource Center (PBRC) through the conduct of the following six (6) events:

- Palawan Kiddie and Youth Virtual Event;
- World Wildlife Day Webinar;
- Vlogging Contest;
- *Be Better and Consistent: Sustainable Development for Young Audiences*;
- Palawan Kiddie Summit; and
- Kiddie and Youth Wildlife Saver's Club Ambassadors (**Figure 10**).



Figure 10. The PCSDS Kiddie Wildlife Saver Ambassadors.



To further disseminate information on the relevance and philosophies of R.A. No. 7611 (SEP for Palawan Act) and other environmental laws, policies, and regulations, the PCSDS maintains a radio program at the RMN 103.9 Station scheduled at 9:00 AM – 10:00 AM every second and fourth Tuesday of the month. For the year, it aired for 23 episodes, discussing the following:

- The SEP for Palawan Act and other PCSD-mandated environmental laws and regulations, such as the Wildlife Act, the Caves Act, the Chain Saw Act, and the Ecological Solid Waste Management Act;
- SEP 29th Anniversary Celebration and other PCSD-initiated events;
- Updates on PCSDS events and activities (including rescue and release of wildlife species, environmental law enforcement operations, training sessions and seminars, IEC campaigns);
- Current events and issues and concerns in Palawan (including the West Philippine Sea, “Acacia Tunnel” artificial lights, SEP Clearance of Ipilan Nickel Corporation, etc.);
- Environment-related celebrations and their significance (e.g., Zero Waste Month, World Wetlands Day, World Pangolin Day, International Day of the Forest, National Indigenous Peoples’ Month); and
- Other environment-related topics (ECAN Zones, importance of water and water bodies, responsible and sustainable tourism, effects of typhoon on wildlife, Palawan’s biodiversity).

The EEED staff also assisted in the establishment of the Community Radio Station (CRS) in the municipality of Roxas, Palawan. The staff is currently waiting for the processing of the issuance of Provisional Authority from the National Telecommunications Commission (NTC) in Manila.

❖ **Development of Innovative and High-Impact Social Marketing Materials**

In support to its IEC campaigns, the PCSD Staff produced innovative IEC materials, such as more than 900 print materials (updates, newsletters and

Meanwhile, a total of **667 articles, stories and/or press releases** were published in the PCSD social medial channels (Facebook and Instagram) and website (<https://pcsd.gov.ph>), while *PCSD Updates* monthly newsletter is published in the PCSD website.

❖ **Capacity Building and Palawan Sustainable Development Training Institute (PSDTI).**

To determine the capabilities of the stakeholders and therefore the necessary capacity enhancement programs, two (2) Training Needs Assessments (TNA) were conducted by the staff. The staff also developed three (3) training modules, specifically: (a) Species Management Training; (b) Teachers Training on Biodiversity Enhancement and School Garden; and (c) Youth Eco Camp.

As part of the capacity building of stakeholders in the management of the environment and natural resources, the agency organized the following training/workshops.

The **Teachers' Training on School Garden cum Biodiversity Enhancement (Species Management)** was held on 25-27 August 2021 at Hue Hotels and Resort, Puerto Princesa City. The activity was participated by 52 teachers, school officials and Parents and Teachers Association (PTA) members from Palawan State University (PSU) and Barangay Sta. Lourdes National High School (**Figure 11**). The PCSDS recognizes the integral role of the academe in raising environmental awareness and creating behavioral change among the youth. Thus, the three-day training aimed, among other objectives, to (a) change people's perspectives about promoting biodiversity at the school level to encourage a new paradigm of landscaping that allows local species to thrive; and (b) develop a greater sense of responsibility to be involved in the nutrition of children, and build their own home gardens.

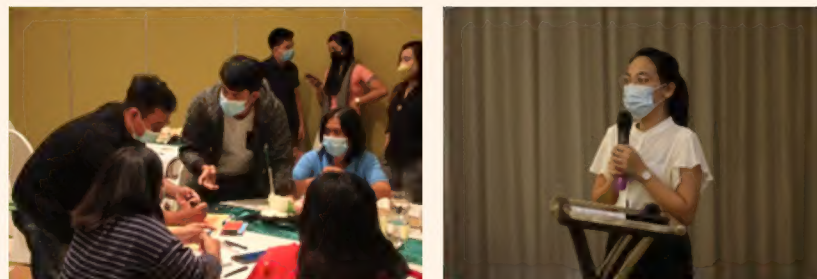


Figure 11. (Left) The participants during the workshop of the Teacher's Training on School Garden cum Biodiversity Enhancement. (Right) Atty. Irish Villamor-Dosado, EEED Chief, during her opening remarks for the Teacher's Training.

In its continuous efforts for the conservation of wildlife species, the PCSDS has organized the training entitled "**Palawan Hornbill Pre-workshop (Species Management of Dumaran Flagship)**" on 16 July 2021 at the Hue Hotels and Resorts and at the Yamang Bukid Farm-Palawan, both located in Puerto Princesa City, with incorporation of virtual participation via Zoom platform (see **Figure 12**). The training aimed to (a) maintain, conserve and restore species and habitats, and (b) develop public education and appreciation of the species and/or habitats concerned. The activity was attended by 13 participants.

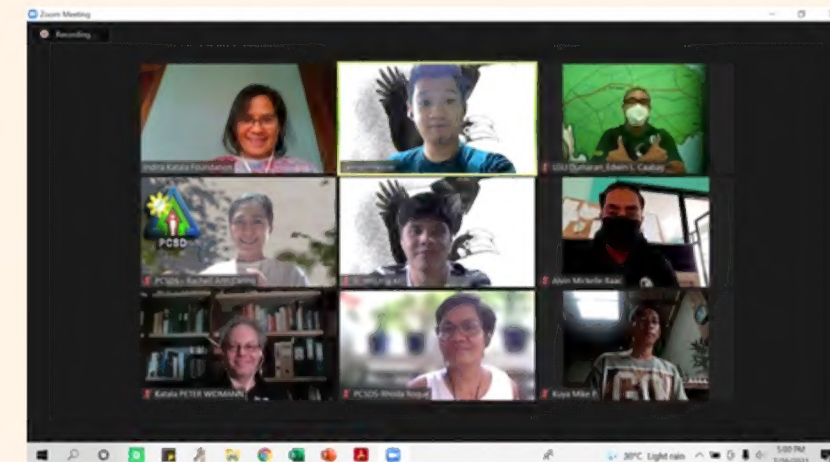


Figure 12. Participants who joined the virtual training (via Zoom) entitled "Palawan Hornbill Pre-workshop (Species Management of Dumaran Flagship)" on 16 July 2021.

The PCSDS also organized the **Species Identification and Management Training** on 3 November 2021 in Bataraza, Palawan (see **Figure 13**). It was co-organized by the DENR Protected Area Superintendent, Bataraza Sangguniang Bayan, and representatives from Barangay Taratak, attended by 14 participants. One of the objectives of the training is to capacitate community members with knowledge on environmental legislations implemented in Palawan, and to provide a forum for members of the community to seek clarification and further information about environmental regulations. Another focus of the training is to raise awareness of Bataraza LGU on the ecological importance of the Nicobar pigeon or Siete Colores (*Caloenas nicobarica*, Linnaeus 1758), which will lead to the development of a comprehensive five-year and ten-year action plans on the protection and conservation of the species.



Figure 13. Participants and organizers during the Species Identification and Management Training on 3 November 2021 in Bataraza, Palawan.

Meanwhile, the PCSDS organized the virtual **Wildlife Enforcement Officer’s Deputation Training**, which was joined by 41 participants, composing of seasoned and newly hired Wildlife Enforcement Officers (WEOs), Wildlife Traffic Monitoring Officers (WTMOs), and Palawan Environmental Enforcement Network (PalawEEN) Coordinators of PCSDS from different areas in Palawan on 21-23 September 2021 (see **Figure 14**). The deputation training aimed to equip the new WEOs with the necessary knowledge and skills in environmental law enforcement and orient them on the process of litigation and prosecution of cases. This activity also served as a venue to re-train the existing WEOs and WTMOs on these aspects. In addition, the PCSDS organized the **Tactical Training** for WEOs and other enforcement officers on 4-7 August 2021 (see **Figure 14**).



Figure 14. (Left) The participants and organizers during the virtual Wildlife Deputation Training (via Zoom) on 21-23 September 2021. (Right) The participants during the Tactical Training on 4-7 August 2021.

The staff served as training instructors and resource speakers on various training sessions and workshops organized by other agencies and organizations, including the **Environmental Law Enforcement Training for Law Enforcement Officers**, which was co-organized by USAID, DENR and PCSDS.

b. Environmental Monitoring and Evaluation System (EMES)

The EMES is established to generate scientific knowledge for the SEP, track the progress of its implementation, monitor changes in the environment, and develop scenarios to address critical concerns on land and water use for the future. It deals with environmental assessment, mapping, and modeling. The system is implemented by the ECAN Monitoring and Evaluation Division (EMED).

❖ **Ecosystem and Natural Capital Accounting and Monitoring (NCM) with Sustainable Financing**

Natural Capital Accounting is a tool that can help measure the full extent of a country’s natural assets and give perspective on the links between the economy, ecology, and the environment. As part of this, the PCSDS has prepared the technical report prepared on the ecosystem accounting of Maruyog Watershed in Brooke’s Point, Palawan.

Meanwhile, for sustainable financing, the PCSDS prepared the technical report entitled “Payment for Ecosystem Services (PES) in Palawan: Profiling the Watersheds and Other Areas for Implementation”. Relative to this, the staff prepared the draft “Guidelines for the Implementation of PES in Palawan”, which was approved by the PCSD during its 284th Regular Meeting on 28 October 2021, through PCSD Resolution No. 21-791.

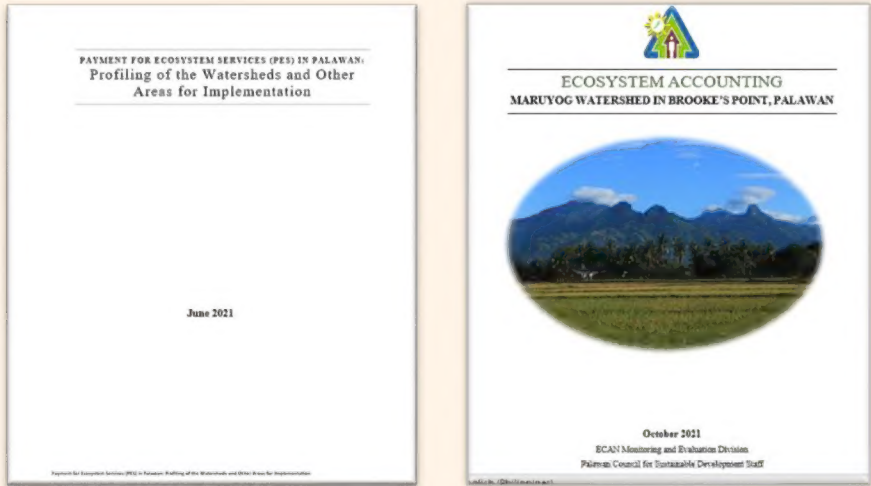


Figure 15. (Left) Cover page of the technical report entitled “Payment for Ecosystem Services (PES) in Palawan: Profiling the Watersheds and Other Areas for Implementation”. (Right) Cover page of the technical report entitled “Ecosystem Accounting; Maruyog Watershed in Brooke’s Point, Palawan”.

❖ **Sustainable Development Monitoring**

Founded on the ten (10) principles of the International Council on Mining and Metals, the **Sustainable Management Online Tool (SMOT)** is an instrument that generates performance-based results in terms of the economic, social, environmental and governance dimensions of Sustainable Development (SD). SMOT allows proponent-companies to self-check as it rates its current policies and projects vis-à-vis the SD principles. In 2021, the PCSD Staff used the SMOT during their 3rd assessment of the Berong Nickel Corporation in Quezon, Palawan, via Zoom conference.

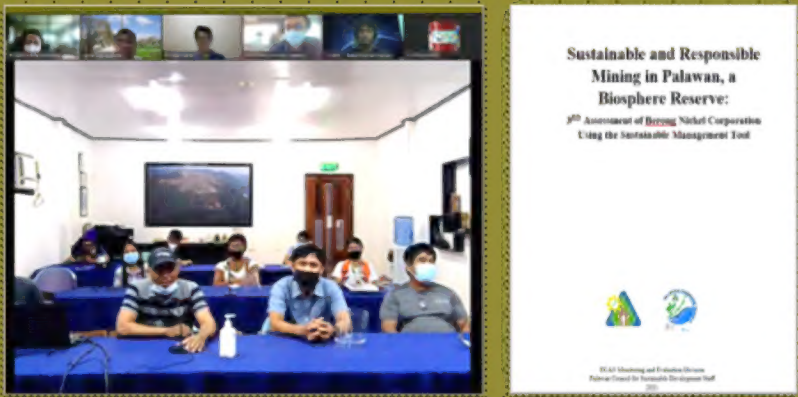


Figure 16. (Left) The PCSD staff and the Berong Nickel Corporation (BNC) staff during the virtual assessment of the said corporation. (Right) Cover page of the 3rd Assessment Report of BNC using the Sustainable Management Online Tool (SMOT).

In addition, the PCSDS continued to utilize the Sustainable Assessment of Food and Agriculture Systems (SAFA) tool and utilized this in the virtual/off-site assessment of the Lionheart Farms (Philippines) Corporation.

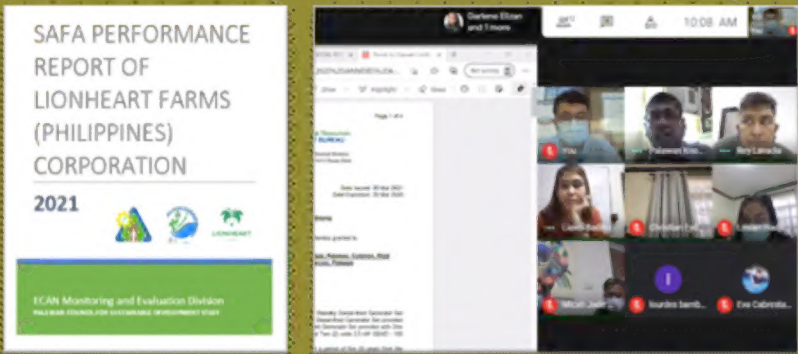


Figure 17. (Left) Cover page of the Sustainable Assessment of Food and Agriculture Systems (SAFA) Performance Report of Lionheart Farms (Philippines) Corporation for 2021. (Right) The PCSD staff and the staff of the Lionheart Farms (Philippines) Corporation during the virtual/off-site assessment using the SAFA tool.

Also, in 2021, the agency conducted the review of criteria for Assessment for the Zero Carbon Resorts (ZCR) Awards. They also prepared the report on the Recommended Key Indicators for the Zero Carbon and Green Building Assessment.

Lastly, the staff prepared a technical report entitled “Building Resilient Water – Energy – Food Systems under Shocks: A Guide in Selecting Water-Energy-Food (WEF) Nexus Tools and Frameworks”.

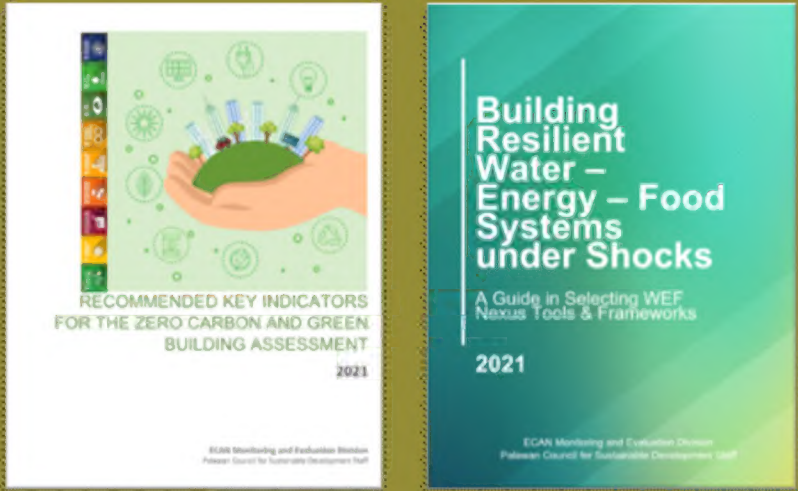


Figure 18. (Left) Cover page of the report on Recommended Key Indicators for the Zero Carbon and Green Building Assessment. (Right) Cover page of the report entitled “Building Resilient Water – Energy – Food Systems under Shocks: A Guide in Selecting WEF Nexus Tools and Frameworks”.

❖ *Ecological Monitoring*

As part of the continuous monitoring of ecosystem conditions in the province, water sampling in freshwater bodies and coastal areas in Palawan was undertaken to regularly check the changes in water quality. This includes monitoring in: twenty-four (24) major river systems in mainland Palawan; twelve (12) seawater quality monitoring stations in San Vicente, Taytay and El Nido; twelve (12) newly established seawater quality monitoring sites in Roxas and Quezon; and two (2) World Heritage Sites, namely the Puerto Princesa Subterranean River National Park (PPSRNP) and the Tubbataha Reefs Natural Park (TRNP).

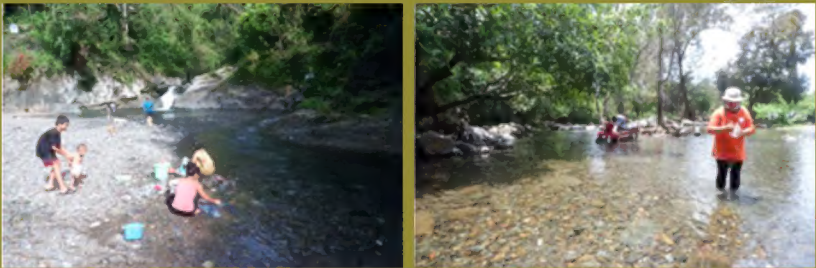


Figure 19. River monitoring stations in Sabsaban Falls, Brooke's Point, Palawan (Left) and in Calategas dam, Narra, Palawan (Right).

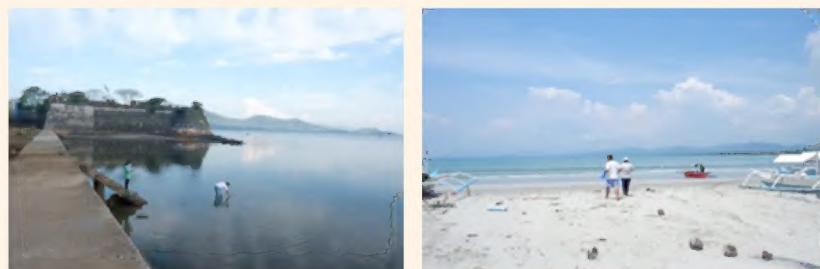


Figure 20. Collection of water samples conducted in Taytay, Palawan (Left) and San Long Beach, San Vicente, Palawan (Right).

The water samples collected from all of these areas were analyzed in the PCSD Environmental Laboratory located at the Palawan Sustainable Development Training Institute (PSDTI), Barangay Irawan, Puerto Princesa City. These were analyzed in terms of various parameters, such as but not limited to: biochemical oxygen demand (BOD), oil and grease, total suspended solids (TSS), salinity, nitrates, color, dissolved oxygen, phosphates, and coliform (**Figure 21**).

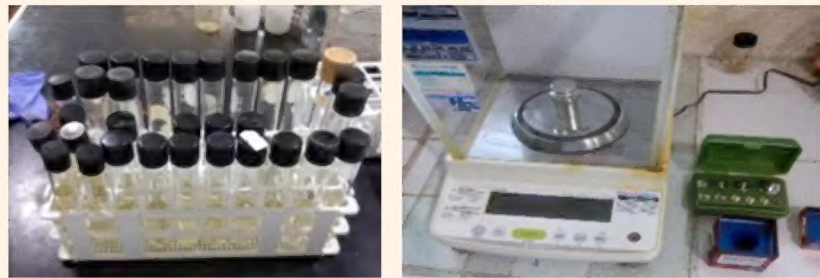


Figure 21. Water samples (left) were analyzed by the PCSD Staff using laboratory equipment (right).

The 2021 report on Water Quality of Rivers and Coastal Marine Areas, along with the reports from 2010 to 2020, was furnished to seven (7) local government units (LGUs) in the province namely: Narra, Brooke's Point, Roxas, Quezon, Taytay, Aborlan, and San Vicente. These reports provide snapshot of the trends and the prevailing issues affecting the water quality and provide recommendations that may form the basis for policy interventions for the LGUs and other stakeholders.

Relatedly, the PCSDS also acted on the request of the LGU-Quezon to conduct training of staff from the local government of Quezon on water quality monitoring and establish monitoring stations in Malanut Bay.

❖ **Geomatics**

The PCSD Staff has also completed two (2) technical studies for “Geospatial Study of Settlement and Urban Sprawl” for two areas: Maruyog Catchment, Brooke's Point and Manguao Catchment, Taytay. These studies are under the Medium-Term Information and Communications Technology Harmonization Initiative (MITHI) Project.

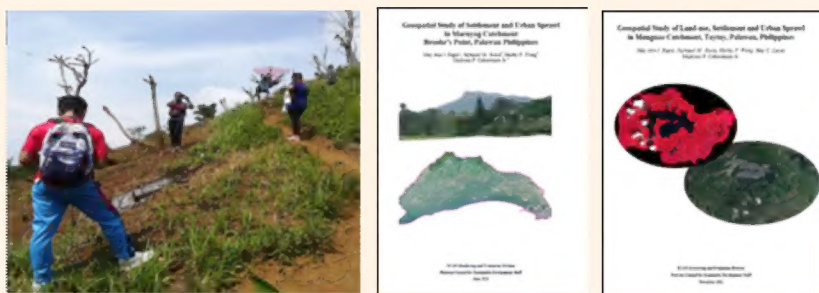


Figure 22. (Left) Field validation survey at Maruyog catchment on 5-10 April 2021. (Center) Cover page of the technical report entitled "Geospatial study on Settlement and Urban Sprawl in Maruyog Catchment, Brooke's Point, Palawan". (Right) Cover page of the research entitled "Geospatial Study of Land-use, Settlement and Urban Sprawl in Manguao Catchment, Taytay, Palawan, Philippines".

Out of these technical reports, three (3) land-use land cover changes were also produced for 2008, 2016, and 2020 for respective municipalities using Sentinel 2 and Landsat imagery in monitoring the rapid increase of urban sprawl and human settlement maximizing the utilization of GIS and Remote Sensing technology.

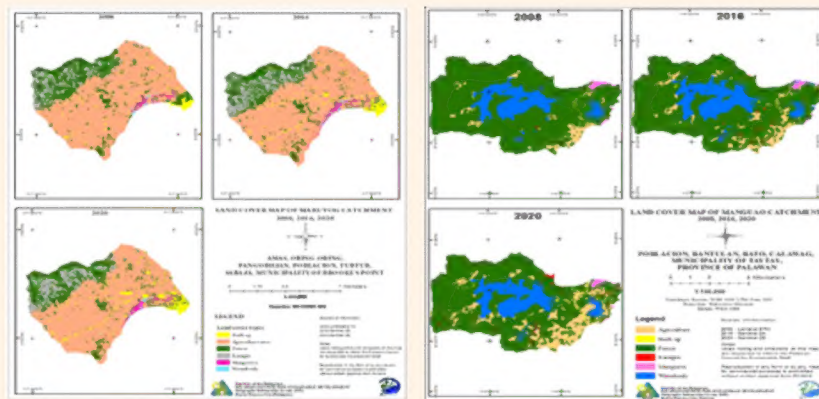


Figure 23. (Left) Three land-use land cover change maps of Maruyog catchment for 2008, 2016 and 2020. (Right) Three land-use land cover change maps of Manguao catchment for 2008, 2016 and 2020.

a. ECAN Zoning

To increase benefits from natural resources (i.e., provisioning, supporting, regulating, and cultural services derived from ecosystems), the SEP framework and ECAN standards are mainstreamed and institutionalized into the planning and decision-making processes of local government units. The major activities under ECAN zoning include the updating of ECAN maps, mainstreaming of ECAN into local land use planning system, formulation of policies and guidelines in support of ECAN, and capacity development of ECAN Boards and key stakeholders for ECAN management. The lead division for this activity is the ECAN Policy Research and Planning Division (EPRPD), with support mainly from the District Management Divisions (DMDs).

❖ *ECAN Map Updating*

The PCSDS, through the efforts of the District Management Divisions, has facilitated the updating of the ECAN Maps for five (5) municipalities, namely: Cuyo (see **Figure 24**), Magsaysay (see **Figure 25**), Araceli (see **Figure 26**), Sofronio Española (**Figure 27**) and Culion. These maps were updated through stakeholders’ consultations and field validation activities.

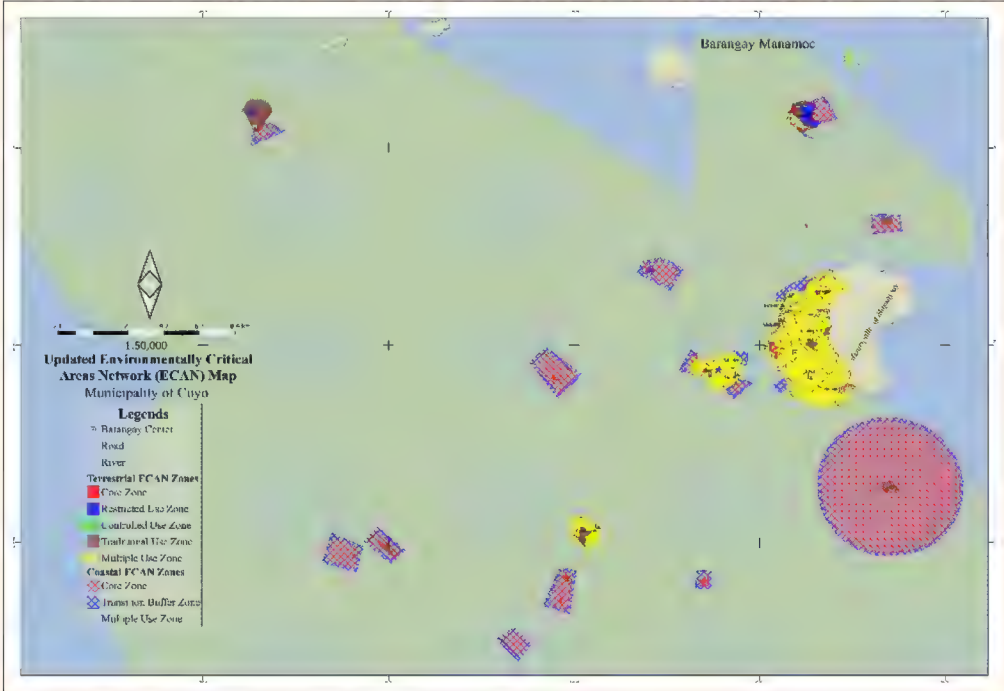


Figure 24. Field-validated ECAN Map of Cuyo.

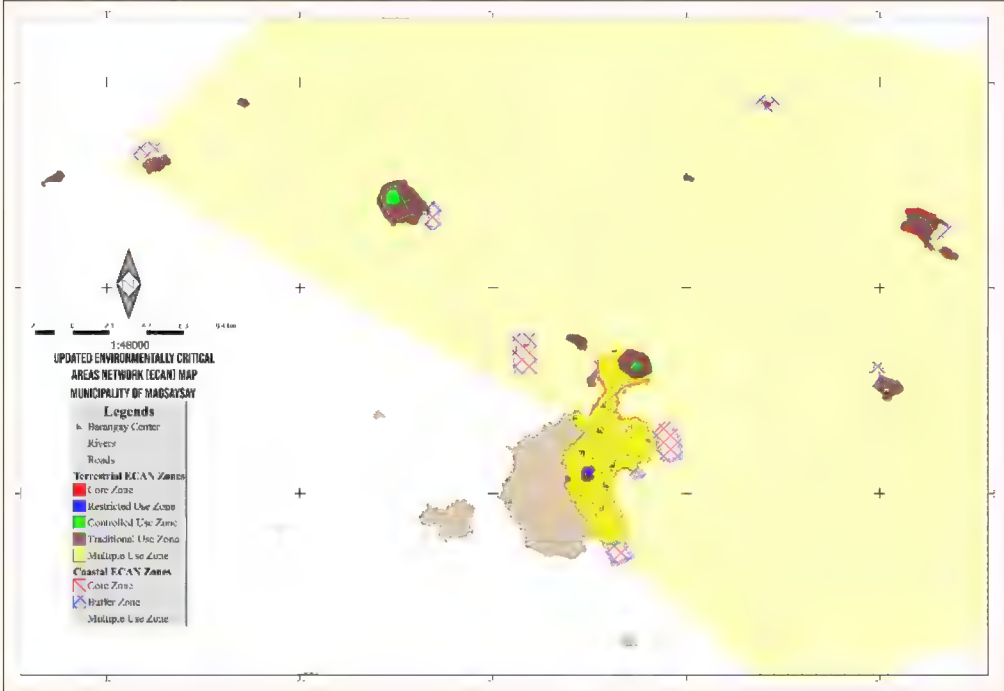


Figure 25. Field-validated ECAN Map of Magsaysay.

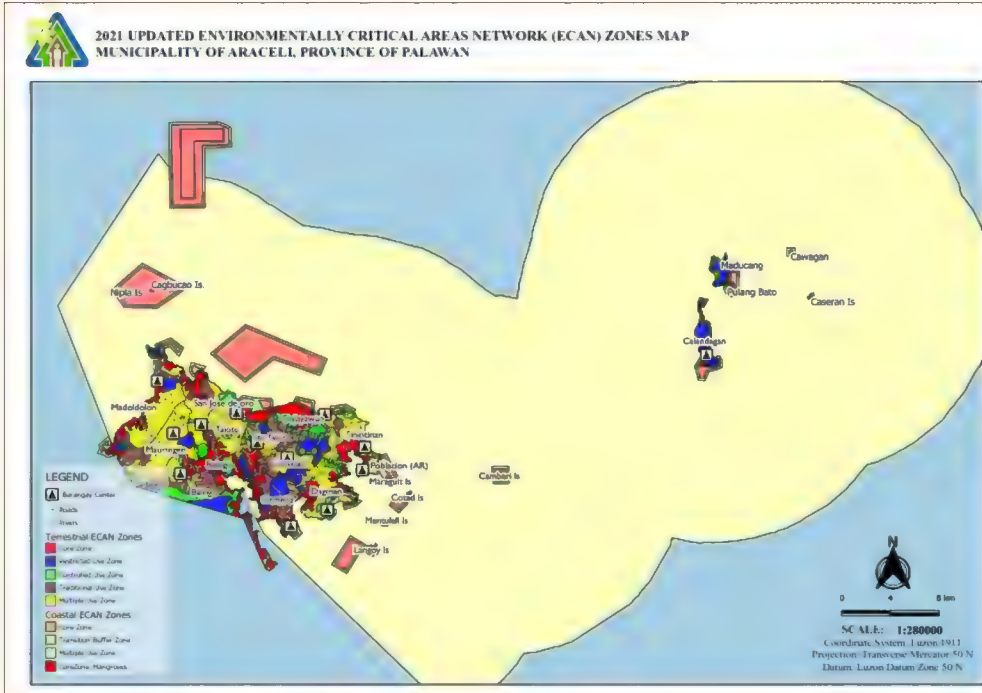


Figure 26. Field-validated ECAN Map of Araceli.

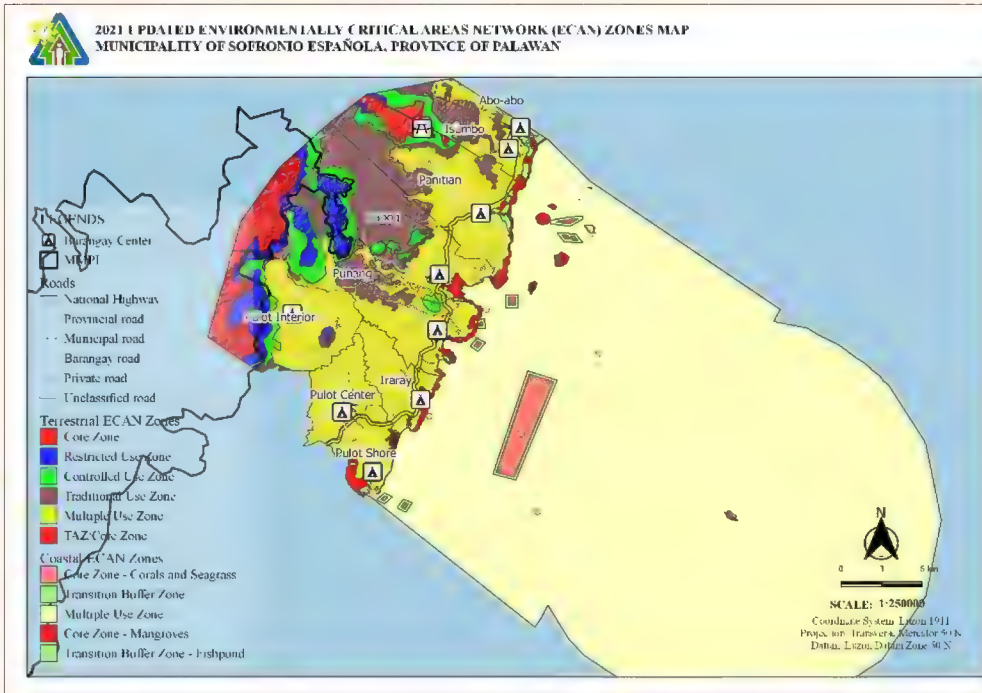


Figure 27. Field-validated ECAN Map of Sofronio Española.

❖ *Marine Protected Area (MPA) Planning*

The PCSDS also organized the workshop entitled “Revitalization of Palawan Marine Protected Area (MPA) Network” on 30 September 2021. The activity aimed to revitalize the MPA Network clusters of Palawan, tap the existing initiatives for them, as well as provide technical assistance in strengthening implementation. The workshop was attended by representatives from local government units (LGUs), national government agencies, non-government

organizations, private sector, international partners like USAID, among others.

❖ **Establishment of Indigenous Community Conserved Areas (ICCAs)**

Indigenous and Community Conserved Areas (ICCAs) are globally significant type of managed areas governed by local or indigenous communities for conservation and cultural purposes. Their contribution to biodiversity conservation, sustainable livelihoods and climate adaptation are significantly understudied. Relative to this, the PCSDS commissioned the study on ICCA for Barangay Turda, Coron, Palawan.

❖ **Review of Local Government Ecological Solid Waste Management Plans (ESWMPs)**

In line with the mandate of the PCSD to implement Section 16 of Republic Act No. 5003 or the Ecological Solid Waste Management Act of 2000, the PCSD is mandated to approve the ecological solid waste management plans (ESWMPs) of the 23 municipalities in Palawan and one (1) city. For 2021, the PCSD ESWMP Review Team evaluated a total of six (6) Ecological Solid Waste Management Plans, specifically from the municipalities of Busuanga, Cagayancillo, Coron, Culion, El Nido, and Rizal. Among these plans, the Culion ESWMP was recommended for approval by PCSD, and was eventually approved by the Council during its 276th Regular Meeting on 24 February 2021. Meanwhile, the evaluation results for the plans of El Nido, Cagayancillo, Coron, Rizal and Busuanga were furnished to the said LGUs for their revision and enhancement of their plans.



Figure 28. Cover pages of the local government Ecological Solid Waste Management Plans reviewed/evaluated by the PCSD Staff in 2021, namely (clockwise, from top left): Cuyo, El Nido, Cagayancillo, Busuanga, Rizal, and Coron.

In addition, PCSDS' membership in the Ecological Solid Waste Management Boards (ESWMBs) and Technical Working Group (TWGs) in the city/municipalities was strengthened. PCSDS endeavors for continuous coordination with the LGUs as well as the presentation by PCSDS during the virtual meeting of the Provincial Ecological Solid Waste Management Board (PESWMB) on 3 November 2021.

d. Knowledge and Research Management

This activity includes the generation and dissemination of up-to-date scientific information on Palawan, as well as the strengthening of cooperation and exchange of information among partner stakeholders within and outside the province. This activity also includes the operation of the Palawan Knowledge Platform for Biodiversity and Sustainable Development (PKP), an information clearing house mechanism designed to consolidate and distribute the knowledge base on Palawan to a wide variety of users. The lead division for this activity is the ECAN Monitoring and Evaluation Division (EMED), with the support of the other divisions.

❖ **Sustain the Palawan Knowledge Platform information sharing mechanism of Palawan Biosphere Reserve (BR)**

The **Palawan Knowledge Platform (PKP)** is an online platform designed as a device for sharing biodiversity information and data regarding Palawan. Launched in 2014, the platform was conceived from the observed need of sharing to the public all the biodiversity research and studies done in the province (see **Figure 29**). It managed to grow into 33 member institutions, composed of 12 government offices, six (6) academic institutions, and 15 civil society groups. The PKP partnership maintains one (1) knowledge-sharing site (<https://pkp.pcsd.gov.ph>), which has garnered 10,000 online page views and 4,691 visitors this year. The solid knowledge and information in PKP will be used to formulate technically sound plans and policies, develop robust methodologies for mainstreaming ECAN into local conservation and development plans, and conduct monitoring and evaluation more effectively.

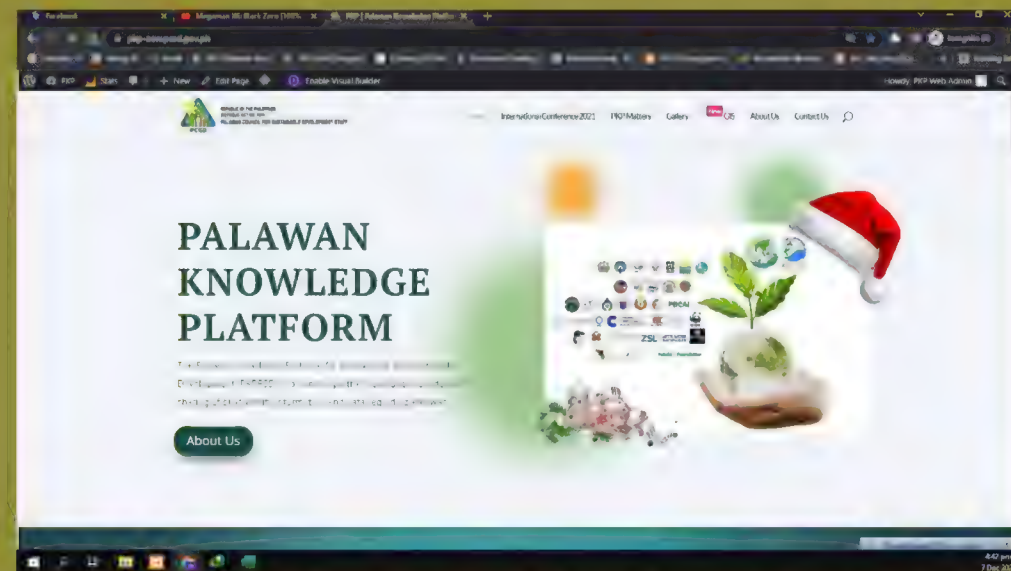


Figure 29. The official website of the Palawan Knowledge Platform (<https://pkp.pcxd.gov.ph/>)

The PCSDS also co-convened eight (8) PKP collaborative meetings for the two (2) collaborative activities, namely: (a) the PKP Research on Mercury in Humans and Wild Flora and Fauna; and (b) the 2021 International Conference on Biosphere and Sustainability (see **Figures 30-33**).



Figure 31. The participants (face-to-face) during the 27th Meeting of the PKP on 16 March 2021, while observing social distancing and other minimum health standards, at Hue Hotels and Resort, Barangay San Manuel, Puerto Princesa City.



Figure 30. The participants (via Zoom conference) during the 27th Meeting of the Palawan Knowledge Platform (PKP) on 16 March 2021.

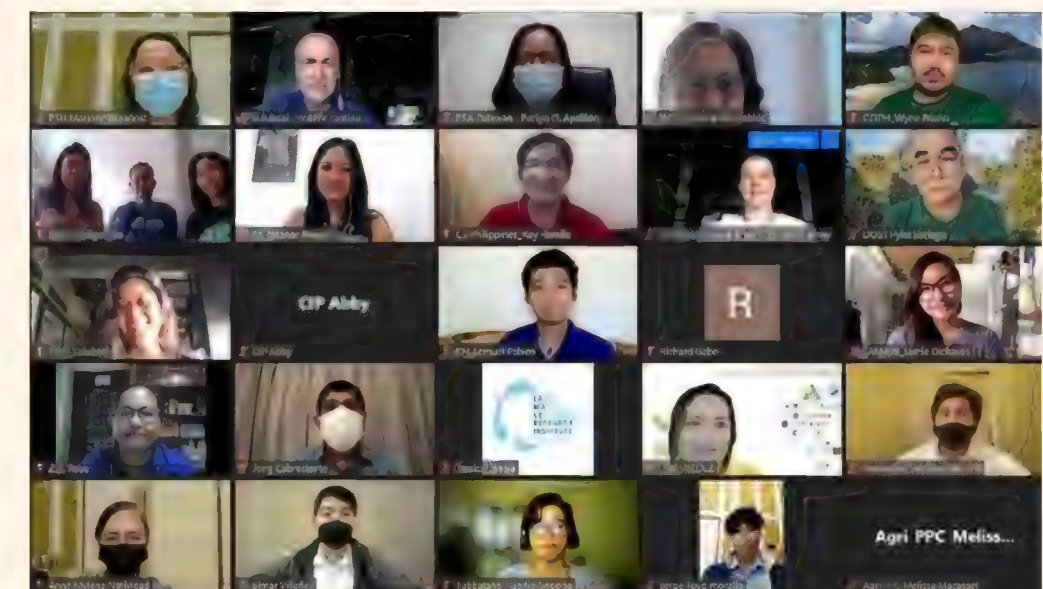


Figure 32. The participants who joined virtually (via Zoom conference) during the 29th PKP Meeting.



Figure 33. The participants (face-to-face) during the 29th Meeting of the PKP on 11 August 2021, while observing social distancing and other minimum health standards, at Hue Hotels and Resort, Barangay San Manuel, Puerto Princesa City.

The PKP also commissioned the Phase III of the research entitled **“Study on Mercury in Humans and Wildlife (Flora and Fauna)”** at the former Palawan Quicksilver Mines, Inc. (PQMI), Barangay Sta. Lourdes, Puerto Princesa City, Palawan”. The PQMI that operated between 1953 and 1976 used the mine-wastes calcines to construct a jetty in nearby Honda Bay, and was later found to contain mercury concentration at an alarming level. The study, therefore, aims to provide the latest scientific information on the mercury levels found in humans and wildlife in Puerto Princesa City and the province of Palawan. Phase I of the study was completed and presented to the PCSD on 27 February 2020, while Phase II was completed in 2020-2021. For Phase III (2021), a total of 1,472 samples (478 flora, 280 fauna, and 714 human hair) were collected. The analysis of these samples is ongoing at the Philippine Nuclear Research Institute (PNRI).

❖ **Collaborate with National and International Research and Academic Institutions for Knowledge Sharing**

The PCSDS, through the EMED, organized the 6th annual meeting of the PCSD Scientific Advisory Panel (SAP) on 18 June 2021 via Zoom conference. Among the members of the SAP, who are experts and specialists from all over the country, 18 were present during the meeting (see **Figure 34**) and have thoroughly discussed two (2) topics related to current issues in the province, namely: (a) Zones of the ECAN in Palawan under R.A. No. 7611 or the Strategic Environmental Plan (SEP) for Palawan Act; and (b) Alien Invasive Species in Palawan. Based on these discussions, the SAP was able to formulate statements and recommendations for the PCSD on actions for these two policy issues (see **Figures 35-36**).

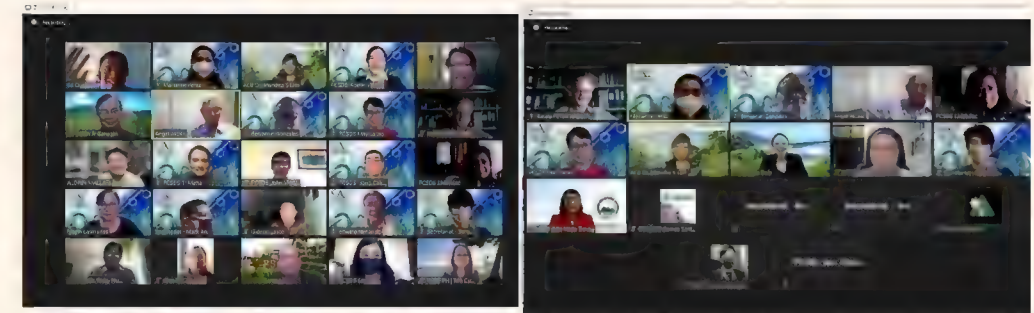


Figure 34. The PCSD Scientific Advisory Panel (SAP) members along with PCSD Staff and other attendees during the 6th SAP Meeting on 18 June 2021 via Zoom conference.



Figure 35. PCSD Scientific Advisory Panel (SA) Statement and Recommendations on Topic 1 (ECAN Zones).



Figure 36. PCSD Scientific Advisory Panel (SA) Statement and Recommendations on Topic 2 (Alien Invasive Species in Palawan).

The PCSD staff also spearheaded the conduct of the 2021 International Conference on Biosphere and Sustainability on 11-12 November 2021, with the theme: *“Protecting and Sustaining the Biosphere Our Global Goal”* (see **Figures 37-38**). The conference was able to serve as a platform for 47 research presentations (36 paper presentations and 11 scientific posters). The activity was a mix of face-to-face participation (mostly organizers) at the Hue Hotels and Resorts, Puerto Princesa City, and virtual participation (via Whova Event Management Systems, Zoom Cloud Meetings, and Facebook

Live). Overall the event was participated by 1,087 online attendees and participants.



Figure 37. Banner of the 2021 International Conference on Biosphere and Sustainability, showing the organizers and partner institutions/organizations.



Figure 38. The PCSD Staff during the 2021 International Conference on Biosphere and Sustainability at the Hue Hotels and Resorts, Puerto Princesa City.

❖ **Publish Knowledge Materials, Furnish Research, Studies, and Policy Recommendations to Stakeholders Concerned**

The PCSD Staff also prepared the **Our Palawan Scientific Journal** (Volume 7, Issue 1, 2021) (**Figure 39**), which is ready for printing and publication. The *Our Palawan* is an Open Access journal accessible online through the official websites



Figure 39. Cover page of the “Our Palawan” Scientific Journal (Volume 7, Issue 1, 2021).

of PCSD (www.pcsd.gov.ph) and of the Palawan Knowledge Platform for Biodiversity and Sustainable Development (<https://pkp-new.pcsd.gov.ph/our-palawan/>). It has been annually published since 2015. The main objective of the journal is to serve as an available platform for the research works where researchers (including students, professionals, and experts) can share these studies, and at the same time access valuable study outputs and findings on Palawan. The 2021 issue presents the studies on mercury levels in wildlife and domesticated fauna in the immediate vicinity of abandoned mercury mines in Puerto Princesa City; the level of implementation in Palawan of the Wildlife Resources Conservation and Protection Act of 2001 (Republic Act 9147); and the population structure and microhabitat of Dwarf Pygmy Goby, *Pandaka pygmaea* in Puerto Princesa City. It also features the recommendations of the Scientific Advisory Panel of the PCSD, the review of Palawan Research and Sustainable Development Agenda 2016-2030, and the discussions and studies presented in the 2021 International Conference on Biosphere and Sustainability.

e. Operation of the Strategic Environmental Plan (SEP) Clearance System and Permitting System

Adopted through R.A. No. 7611 in 1992, the Strategic Environmental Plan (SEP) is a comprehensive framework for the sustainable development of Palawan protecting and enhancing the natural resources and fragile environment of the province. To ensure that all programs, activities, and projects in Palawan are aligned with the SEP framework, all development projects are required to pass through the SEP Clearance process of the PCSD in the said province and the City of Puerto Princesa.

Through the SEP Clearance System, the PCSDS issues ECAN Zoning Certifications (EZCs) through its Geographic Information System (GIS) Unit and District Management Divisions (DMDs). The EZCs were issued to project proponents to confirm that the location of the applied project falls within the appropriate Zone. Additionally, the EZC serves as a basis for project classification as Category C (Non-Coverage) or otherwise required to secure SEP Clearance (for Categories A, B, and D).

The SEP Clearance System, therefore, enforces the ECAN zoning system to determine the suitability of development projects in their appropriate location. Complementary to this process, several regulatory measures implemented by PCSDS such as (a) issuance of **wildlife-related permits** (pursuant to R.A. No. 9147 or the Wildlife Resources R.A. No. 9147); (b) issuance of **chainsaw-related permits and certificates** (pursuant to R.A. No. 9175 or the Chain Saw Act of 2002); and (c) issuance of **cave-related permits** (pursuant to R.A. No. 9072 or the National Caves and Cave Resources Management and Protection Act). These regulatory mechanisms are implemented by the ECAN Zones Management and Enforcement Division (EZMED) together with the three District Management Divisions (DMDs).

❖ *Regulating the Entry of Environmentally Critical Projects and Activities*

A total of 82 SEP Clearances were issued by PCSD in 2021. Out of the 198 ECAN Zoning Certifications issued by the agency, 90 were issued to Category C projects.

In addition, a total of 5,366 wildlife-related permits, and 636 chainsaw-related permits were issued this year. These were facilitated by the online permitting system of the PCSD or the Biodiversity Resource Access Information Network (BRAIN), launched at the height of the COVID-19 pandemic in 2020.

Table 1. Quantity of Permits and Clearances issued by PCSD per municipality or city, 2021.

Municipality/City	SEP Clearance		Wildlife-Related Permits	Chainsaw-Related Permits
	SEP Clearance (for Category A, B & D projects)	ECAN Zoning Certification (for Category C projects)		
Aborlan	5	-	16	15
Agutaya	-	-	2	-
Araceli	-	-	37	-
Balabac	-	-	8	-
Bataraza	5	-	79	3
Brooke's Point	7	-	94	175
Busuanga	4	8	2	-
Cagayancillo	-	-	3	-
Coron	10	28	1,675	-
Culion	6	12	-	-
Cuyo	1	-	368	4
Dumaran	2	-	1	2
El Nido	4	21	31	3
Kalayaan	-	-	-	-
Linapacan	-	1	65	-
Magsaysay	-	-	16	1
Narra	6	3	55	25
Puerto Princesa	12	4	1,266	280
Quezon	3	3	281	68
Rizal	3	1	204	1
Roxas	6	6	288	37
San Vicente	1	2	349	2
Sofronio Española	7	-	22	6
Taytay	-	1	504	14
TOTAL	82	90	5,366	636

Further, PCSDS organized ECAN Boards by virtue of the PCSD Administrative Order No. 10 series of 2005, co-convening 58 ECAN Board meetings in the three (3) Districts amidst the limitations brought about by the COVID-19 pandemic. To strengthen the capacity of local environmental boards in policy-making and decision-making processes, a total of 94 ECAN Board Resolutions were passed by these ECAN Boards in CY 2021, supporting the PCSDS efforts on decentralizing its project review and evaluation functions (see **Figures 40-42**).



Figure 40. (Left) Roxas ECAN Board meeting on 27 April 2021. (Right) Cuyo ECAN Board meeting on 20 April 2021.

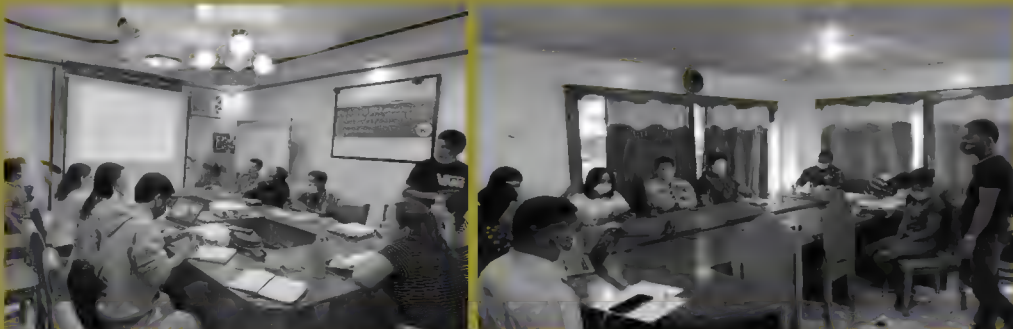


Figure 41. (Left) Coron ECAN Board meeting on 2 February 2021 at the Mayor's Conference Room, Coron, Palawan. (Right) Linapacan ECAN Board meeting on 9 February 2021.



Figure 42. (Left) Brooke's Point ECAN Board meeting on 22 April 2021. (Right) Sofronio Española ECAN Board meeting on 7 May 2021.

❖ *Ensuring Compliance of Conservation and Developmental Projects to ECAN Regulations and Environmental Rules and Regulations.*

To ensure compliance with the terms and conditions of the issued SEP Clearances, the PCSD Staff regularly inspects and monitors projects province-wide. For 2021, a total of 134 issued SEP Clearances were monitored (see **Figures 43-45**). Meanwhile, 18 projects and establishments were found to be operating without SEP Clearance, in which appropriate actions were made against the violators.



Figure 43. (Left) The PCSD Staff during the SEP Clearance compliance monitoring in Banwa Private Island Resort, Roxas, Palawan. (Right) Joint ECAN Board and PCSDS monitoring of lobster cage in Barangay Labog and Panitian, Sofronio Española, Palawan, on 30 April 2021.



Figure 44. (Left) Monitoring of Sand and Gravel Quarry at Barangay Pasadeña, El Nido, Palawan on 18 May 2021. (Right) Monitoring of Zhelphia Beach Resort at Sitio Cabcungan, Barangay Culasian, Rizal, Palawan.



Figure 45. (Left) Monitoring of establishments with Wildlife Special Use Permit (WSUP) at Purok Pagkakaisa, Barangay Candawaga, Rizal, Palawan. (Right) Monitoring of chainsaw of one permittee at Barangay Bunog, Rizal, Palawan on 30 March 2021.

f. Resource Mobilization and Partnership Development

This activity involves stakeholder partnership, engagement, and the development of sustainable financing mechanisms to support ECAN management and implementation. This initiative is mainly facilitated by the ECAN Policy Research and Planning Division (EPRPD), supported by other divisions.

❖ Agency Planning

The PCSD Staff prepared the **Fiscal Year (FY) 2022 Agency Plans and Budget Proposal** and submitted the same to the Department of Budget and Management (DBM), the Department of Environment and Natural Resources (DENR), the Committee on Appropriations of the House of Representatives, and the Committee on Finance of the Senate of the

Republic of the Philippines. The submitted document underwent review for its subsequent inclusion in the government's National Expenditure Program (NEP) (see **Figure 46 (Left)**). Included in the proposal is the Tier 2 proposed project entitled "*Strengthening Palawan Landscape Governance Program for Recovery, Resiliency, and Self-sufficiency in the Age of Pandemics and Rapidly Changing Climate*", which is an expansion of the Palawan ECAN Management Program and adopting specific measures to implement the PCSD mandates and projects amidst the COVID-19 pandemic.

The staff likewise produced the **FY 2022 PCSDS Work and Financial Plan**, as a requirement of the DENR Central Office for endorsement to DBM.

As a component of the FY 2022 PCSDS Budget Proposal, the **FY 2021-2023 Information Systems Strategic Plan (ISSP)** was updated and re-submitted to the Department of Information and Communications Technology (DICT) for review and endorsement (see **Figure 46 (Right)**). The three-year ISSP contains the agency requirements in terms of information and communications technology (ICT) equipment, software, supplies, and services, to support the implementation of the PCSDS Program, Activities, and Projects (PAPs).



Figure 46. (Left) Cover page of the FY 2022 PCSDS Plans and Budget Proposal. (Right) Cover page of the updated FY 2021-2023 Information Systems Strategic Plan (ISSP).

Similarly, the PCSDS produced five (5) agency Public Investment Programs (PIPs), which were encoded in the PIP Online System, together with the PCSDS Three-year Rolling Infrastructure Program (TRIP).

❖ Project Development

As part of the continuous agency effort to secure other sources of funds to augment additional agency thrust and programs, the staff is continuously developing **project proposals** for submission to various funding institutions.

As a result, the staff developed six (6) concept proposals related to the strategic development of the Kalayaan Islands Group (KIG) and submitted to the University of the Philippines Marine Science Institute (UP-MSI) through the PROTECT WPS or "Predicting Responses between

Ocean Transport and Ecological Connectivity of Threatened ecosystems in the West Philippine Sea” Project for possible funding.

The Staff also developed a project proposal submitted to the Korean International Cooperation Agency (KOICA) which aims to contribute to efficient land use, enhanced ecosystem condition and services, water and food security, and climate change resilience under the ECAN of the SEP. The project entitled “*Environment and Natural Resources Information System (ENRIS) Spatial Decision Support for Palawan Island Eco-Region*” is a web-based information decision support tool applicable for remote access.

In coordination with the Tubbataha Management Office (TMO), the AtoN project proposal entitled “*Strengthening Monitoring, Surveillance and Law Enforcement to Safeguard Ecosystem Services for National and Global Food Security in the Tubbataha Reefs Natural Park (TRNP), a UNESCO World Heritage Site and Particularly Sensitive Sea Area (PSSA) under the International Maritime Organization (IMO)*” was completed in 2021. (see **Figure 47**).



Figure 47. Cover page of the project proposal on Aids to Navigation (AtoN), as submitted to the International Foundation for Aids to Navigation (IFAN).

The project seeks to manage the risks on Tubbataha Reefs, especially on accidents that may cause damage to its unique ecosystems such as agrounding and maritime pollution arising from navigation to unfamiliar waters by vessels passing through Tubbataha, and guide in navigating the waters adjacent to the TRNP to avoid encroachment by local and foreign vessels. The proposal was submitted to the International Foundation for Aids to Navigation (IFAN), requiring a 50-50 counterpart from the government, which was also included in the FY 2022 Agency Budget Proposal submitted to DENR and DBM.

❖ **Forging Local and International Partnerships**

To maximize benefits and effective planning and implementation of sustainable development projects and programs in Palawan, continuous establishment and strengthening of partnership with international and local agencies/institutions were made (see **Figure 48**). Through the Office of the Executive Director (OED), agreements were made either through Memorandum of Agreement (MOA) or Memorandum of Understanding (MOU) with local and international partners. Partnerships were facilitated to advance development opportunities, specifically with the following groups:

- United States Agency for International Development (USAID) Philippines Sustainable Interventions for Biodiversity, Oceans, and Landscapes (SIBOL) Project;
- Energy Development Corporation (EDC);
- USAID Safe Water Project;
- Land Bank of the Philippines;
- Club Agutaya;
- Pilandok Rescue Conservation Center; and
- Blue Finance.

Similarly, continuous partnership with the **UNESCO Biosphere Reserve Networks**, particularly the World Network of Island and Coastal Biosphere Reserves (WNICBR) and the Southeast Asian Biosphere Reserve Network (SEABRnet) is being strengthened.

Locally, the Filipino scientists and experts are continuously engaged by the agency through the **PCSD Scientific Advisory Panel (SAP)**, the technical and scientific advisor to the PCSD. Ongoing projects are also co-implemented by PCSDS with other partners such as the Forest Foundation Philippines (FFP) and JCI Puerto Princesa Peacock, among others.



Figure 48. Logos of various partner agencies/institutions/entities/networks of PCSDS.

g. Wildlife and Cave Management

This covers holistic wildlife management, including: species, habitats (including caves), ecosystems as well as empowerment of stakeholders in the conservation and protection of wildlife resources of Palawan. The major strategies involved protection and co-management of critical habitats and other high conservation value areas (HCVAs), species conservation and management, and regulation of wildlife collection and trade.

Related national laws mandated to PCSDS for provincial application include R.A. No. 9147 known as the “Wildlife Resources Conservation and Protection Act”, R.A. No. 9072 or the “National Caves and Cave Resources Management and Protection Act”), and R.A. 9175 or the “Chain Saw Act of 2002”. The ECAN Zones Management and Enforcement Division (EZMED) is leading the implementation of these laws, together with the three (3) District Management Divisions (DMDs).

❖ Population Studies of Threatened and Economically Important Species

In-house studies were likewise conducted with a special focus on the population and distribution of Palawan’s two highly threatened and endemic wildlife species, the Nicobar pigeon (*Caloenas nicobarica*, Linnaeus 1758) and the Asian small-clawed otter (*Aonyx cinereus*, Illiger, 1815) (Figure 49).



Figure 49. Two threatened wildlife species: (left) Nicobar pigeon (*Caloenas nicobarica*, Linnaeus 1758) and (right) Asian small-clawed otter (*Aonyx cinereus*, Illiger, 1815).

The study on the Nicobar pigeon was conducted in Ursula Island Game Refuge and Bird Sanctuary in the municipality of Bataraza, Palawan. The PCSDS wildlife specialists implemented a mixture of transect survey and key informant interviews (KII). Figure 50 below shows that among the areas surveyed, there are only two areas where the species were observed. Though there are only four (4) individual Nicobar pigeons encountered during the actual survey, the count estimate based on the daily monitoring by rangers stationed in the area ranged from 20 to 70 individuals. This discrepancy can be partially attributed to the difference in the season of which the observation was done: the actual survey was conducted in November (well within the rainy season), while the monitoring by rangers was conducted in April during summer. Thus, coincides with the nomadic nature of the Nicobar pigeons moving inter-island wherever food is available making

the island an important feeding ground for Nicobar pigeon and other avian species.

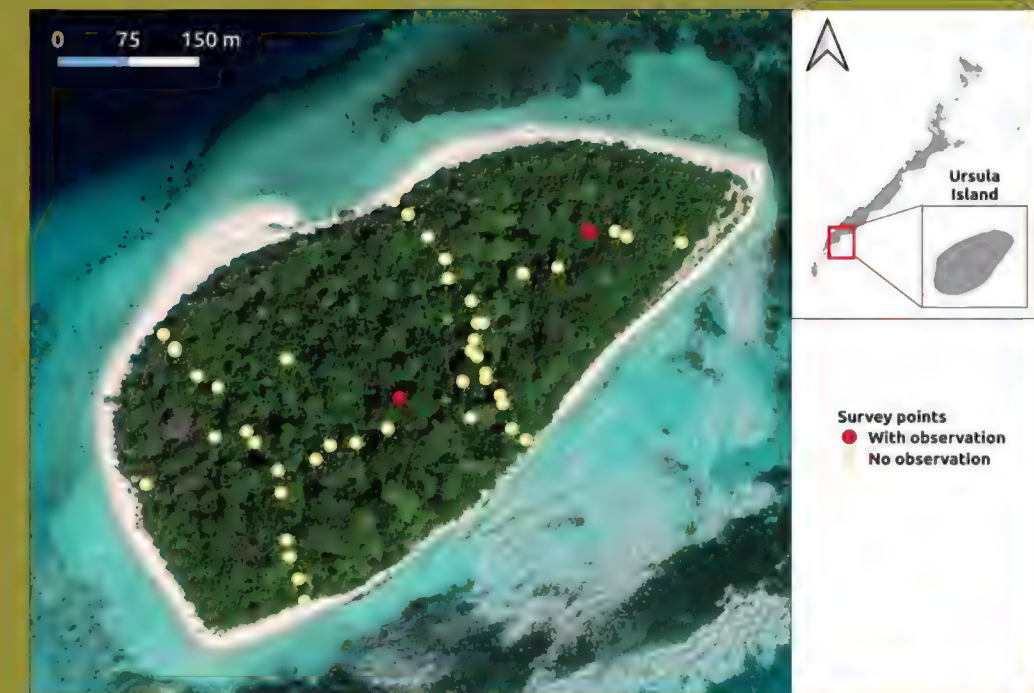


Figure 50. Map of Ursula Island Game Refuge and Bird Sanctuary, Bataraza, Palawan, Philippines, with survey points indicating the areas with and without observation/s on the said species.

On the other hand, the study for Asian small-clawed otter (*Aonyx cinereus*), locally known as *pangkat-pangkat*, *dungon*, *dengen* (Batak) or *dingging* (Tagbanua), was conducted in select municipalities of Northern, Central, and Southern Palawan. Despite the ongoing pandemic, the researchers conducted data gathering activities within the study sites through the methods of ground-based and camera-trapping surveys (see Figure 51).



Figure 51. Camera traps are installed on trees near the riverine system.

Meanwhile, to determine the appropriate management strategies of Economically Important Species (EIS), the Staff likewise studied two EIS, specifically the spiny lobster *Puerulus* (*Malacostraca: Palinuridae*, Latreille 1802) and the Zebra Mantis shrimp (*Malacostraca: Lysioquillina Maculata*) of Palawan (see **Figure 52**).



Figure 52. Economically important species studied by PCSDS in 2021: Zebra Mantis shrimp (*Malacostraca: Lysioquillina Maculata*) (left) and spiny lobster *Puerulus* (*Malacostraca: Palinuridae*, Latreille 1802) (right).

For the spiny lobster *Puerulus*, the study was conducted in the municipalities of Brooke's Point, Sofronio Española, Narra, Aborlan, Roxas, and Dumaran, and in the City of Puerto Princesa. The Staff interviewed a total of 501 catchers. The study results (see **Table 2**) indicate that among the surveyed sites, the municipality of Narra has the highest catch (per piece) of *Puerulus* sp. with minimum catch (35), maximum catch (44), and average catch (39).



Figure 53. Face-to-face interviews were conducted by PCSDS with *Puerulus* sp. catchers and barangay key officials.

Table 2. Catch data of *Puerulus* sp. catchers per municipality surveyed

Municipalities	Catch (per piece)			Rank
	Minimum catch	Maximum catch	Average catch	
Roxas	15	24	19	4
Aborlan	22	31	26	2
PPC	9	18	14	6
Narra	35	44	39	1
Dumaran	17	26	22	3
Sofronio Española	12	21	17	5
Brooke's Point	5	14	9.5	7
Average	16	26	21	--

As for the Zebra Mantis, the study focused on the municipalities of Aborlan, Brooke's Point, Narra, and Roxas with a total of 400 respondents interviewed. These respondents are either presently engaged in mantis shrimp fishing or have experience in fishing Zebra Mantis for the last five years before the date of the survey. The study results and analysis show that the highest volume of catch among the 4 areas is in Narra (see **Figure 54**).

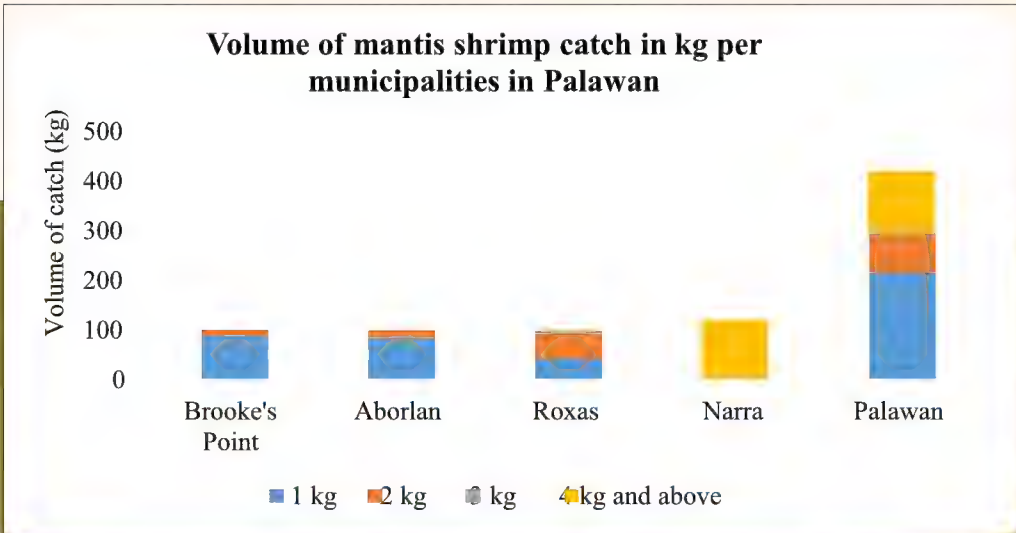


Figure 54. Volume of mantis shrimp catch in kg per Municipality in Palawan.

❖ **Biodiversity and Habitat Assessment**

The staff likewise performed biodiversity and habitat assessments for the municipalities of Dumaran, Sofronio Española, and Barangay Caruray, San Vicente. (see **Figures 55-57**)



Figure 55. Biodiversity and Habitat Assessment for Dumaran, Palawan.

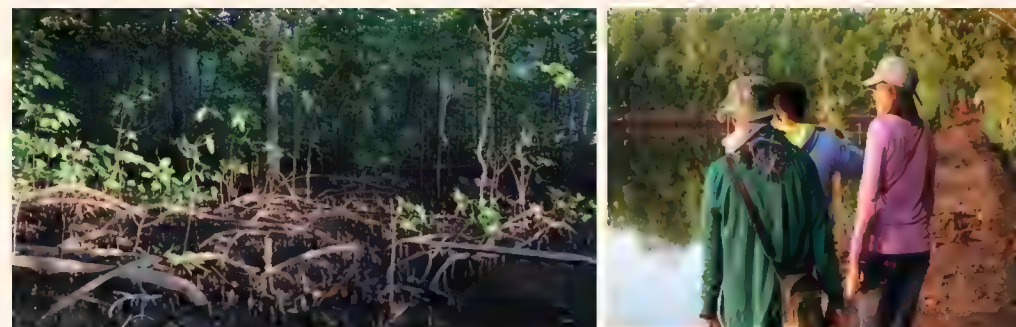


Figure 56. Biodiversity and Habitat Assessment for Sofronio Española, Palawan.



Figure 57. Biodiversity and Habitat Assessment for Barangay Caruray, San Vicente, Palawan.

❖ **Establishment, Strengthening, and Monitoring of Critical Habitats and Other Local Conservation Areas (LCAs)**

Together with other partners, the Staff organized seven (7) consultations for the forging of inter-LGU Memorandum of Agreement (MOA) among the local governments Aborlan, Narra, Quezon and Puerto Princesa for the conservation and protection of Victoria-Anepahan Mountain Range (VAMR) (see **Figures 58-61**). VAMR possesses a highly significant level of biodiversity with more than 41% endemism, of which about 31% are of high conservation significance globally.



Figure 58. Consultation on the inter-LGU MOA for the conservation and protection on Victoria Anepahan Mountain Range (VAMR) in Narra, Palawan (Left) and in Aborlan, Palawan (Right).



Figure 59. Consultation on the inter-LGU MOA for the conservation and protection of VAMR in Quezon, Palawan (Left) and in Barangay Tagabinet, Puerto Princesa City (Right).

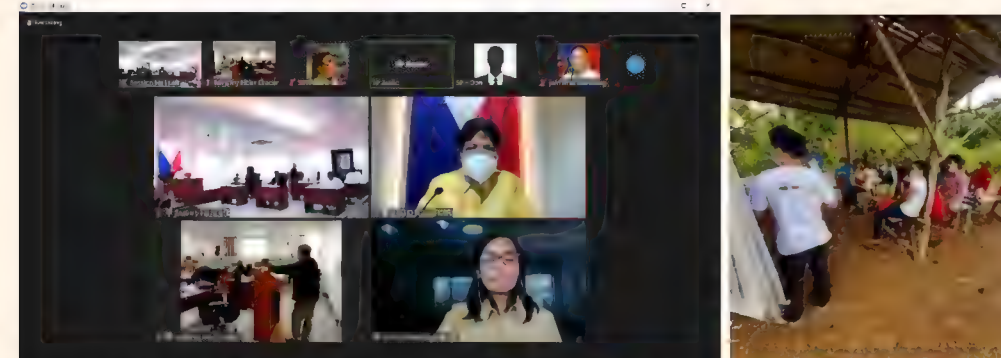


Figure 60. Consultation on the inter-LGU MOA for the conservation and protection of VAMR with the Puerto Princesa City Sanggunian (Left) and in Culandanom, Aborlan, Palawan (Right).

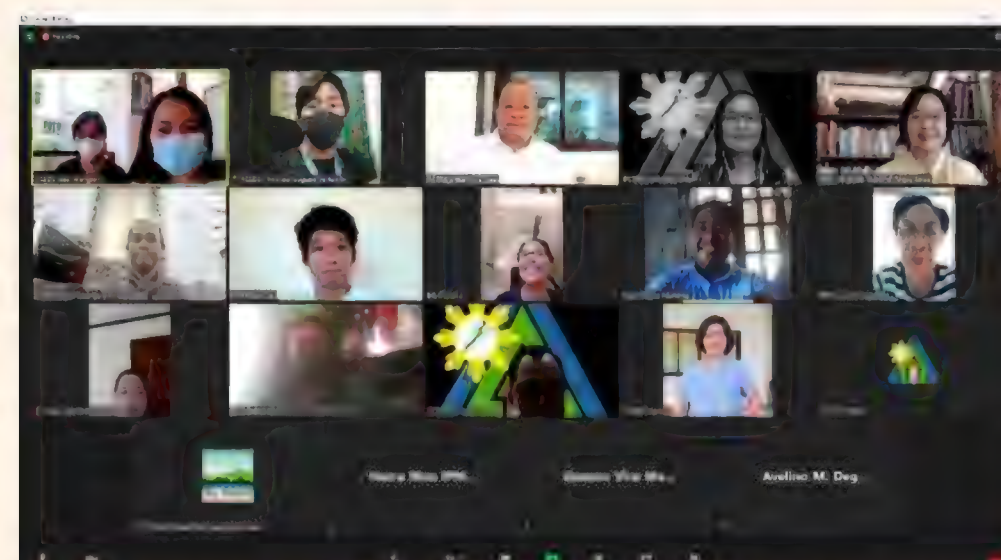


Figure 61. VAMR Stakeholders' meeting on the inter-LGU MOA for the conservation and protection of VAMR.

On-site monitoring and evaluation of the Cleopatra's Needle Critical Habitat (CNCH) were also conducted in Barangay Concepcion, Puerto Princesa City, on 29 November 2021 (see **Figure 62**). The activity aimed to monitor the changes in the state of the said Critical Habitat (CH), and identify immediate threats to the ecosystem. Monitoring results are expected to serve as basis for providing management recommendations.



Figure 62. (Left) The PCSDS Staff together with the Batak Indigenous People during the monitoring and evaluation at Cleopatra's Needle Critical Habitat on 29 November 2021. (Right). The landscape of the Cleopatra's Needle Critical Habitat in Barangay Concepcion, Puerto Princesa City.

The staff also conducted survey and assessment to identify and map out the nesting sites of marine turtles in El Nido, Palawan.



Figure 63. Areas in El Nido, Palawan, visited by PCSD staff during the survey of nesting sites of marine turtles.

❖ *Identification, Assessment, Classification, and Monitoring of Caves*

The PCSDS, mandated to protect and manage the caves and save resources in the province of Palawan, facilitated the PCSDS and LGU joint monitoring and evaluation of Mudlom Cave and Sangaran Arc, both located in Barangay Isugod, Quezon, Palawan, on 8 November 2021 (see **Figures 64-65**). The monitoring and assessment are part of the activities formulated in the 2020-developed Cave Management Plans for caves.



Figure 64. PCSD Staff and partners during the monitoring of Mudlom Cave, Barangay Isugod, Quezon, Palawan.

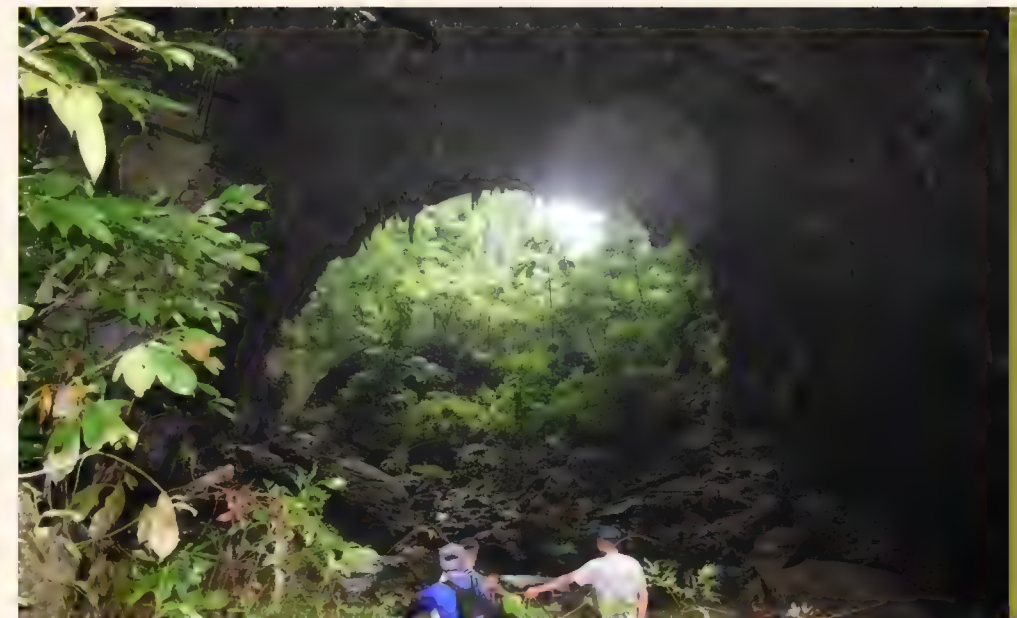


Figure 65. PCSD Staff and partners during the monitoring of Sangaran Arc, Barangay Isugod, Quezon, Palawan.

The staff also conducted the updating of Hundred Caves Management Plan through workshop and proposed the reclassification of some portions of the caves. The PCSDS also joined the assessment of Bagit-bagiton Cave in Ipilan, Narra, Palawan.

❖ *Adoption of Flagship Species*

As part of the PCSDS' continuous efforts in facilitating the declaration and conservation of flagship species for every municipality, the staff organized the Flagship Species management planning workshops the municipalities of Bataraza and Dumaran. The municipality of Bataraza identified Nicobar pigeon (*Caloenas nicobarica*, Linnaeus 1758) while Palawan Hornbill (*Anthracoceros marchei*) was selected for Dumaran, Palawan.

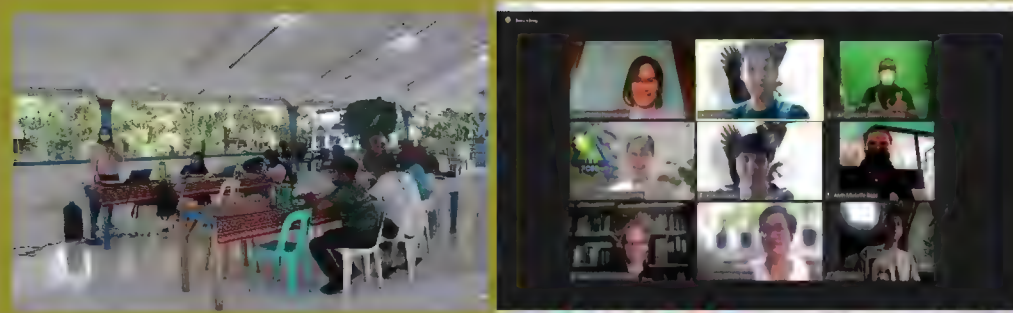


Figure 66. (Left) Flagship species management planning workshop for Nicobar pigeon in Bataraza, Palawan. (Right) Flagship species management planning workshop for Palawan Hornbill in Dumaran, Palawan, via Zoom conference.

❖ **Palawan Biodiversity Resource Center (PBRC)**

Continuous maintenance of the Palawan Biodiversity Resource Center (PBRC) located at the Palawan Sustainable Development Training Institute (PSDTI) in Barangay Irawan, Puerto Princesa City is regularly performed by staff. Launched in 2020 with assistance from the USAID Philippines, the PBRC is a learning center that aims to become a platform where biodiversity conservation efforts in Palawan are showcased and featured. It aims to stimulate the interest of the general public in biodiversity conservation, as well as to establish a database of information on the specimens curated in the center. By 2021, the Staff prepared a total of 214 specimens for display in the PBRC.



Figure 67. The Palawan Biodiversity Resource Center (PBRC) lobby (left) and display of wildlife specimens with detailed description (right).

❖ **Wildlife Rescue and Rehabilitation**

The PCSDS also spearheads the rescue of wildlife and also accepts turnover of wildlife from concerned citizens. Except for turtles that are immediately released in the wild after being rescued, other fauna species such as birds are processed for turn over to the Palawan Wildlife Rescue and Rehabilitation Centre (PWRRC) before their release to their natural habitat (see **Figure 68**).



Figure 68. Rescue and turnover operations conducted or facilitated by PCSDS in 2021.

Table 3. List of Rescued and/or Turned Over Wildlife, PCSDS, 2021

Wildlife Species	Number	Unit Value (in Peso)	Total Estimated Value (in Peso)
1. Mammals			
• Dolphin	1	250,000 ^a	250,000
• Palm Civet Cat	2	4,000 ^b	8,000
• Philippine long-tailed Macaque	3	3,750 ^c	11,250
• Philippine Pangolin	2	25,000 ^d	50,000
• Sea Cow	1	5,373 ^e	5,373
Sub-Total	9		324,623.00
2. Reptiles			
• Monitor Lizard	6	400 – 1500 ^f	2,400 – 9,000

^a Source: <https://dolphinandwhalefoods.com/dolphin-sashimi/>

^b Source: https://manila.philippineslisted.com/pets-animals/palm-civet-cat_8109185.html

^c Source: <https://www.aph.gov.au/DocumentStore.ashx?id=31c2c61a-5f80-41ca-a43e-55fd305c3f62&subId=408086&fbclid=IwAR1pkWlS0q7ok6dxIIP-Rm0WPsULE5ymGSjLYpFSxaiJvMIH3Uq0x23668>

^d Personal communication: Mr. Emerson Sy

^e Source: https://animaldiversity.org/accounts/Dugong_dugon/

^f Source: <https://newsinfo.inquirer.net/1394914/illegal-bayawak-trade-on-facebook-goes-unchecked>

Wildlife Species	Number	Unit Value (in Peso)	Total Estimated Value (in Peso)
• Olive Ridley turtle (hatchling)	85	5,117.50 - 15,352.50 ^g	434,987.5 - 13,026,462.5
• Southeast Asian box turtle	24	163 ^h	3,912
• Green Sea turtle	6	3,200 - 5,000	19,200 - 30,000
• Hawksbill turtle	1	3,582 ⁱ	3,582
• Paradise flying snake	1	5,000 ^j	5,000
• Philippine Rat snake	1	1,000	1,000
• Reticulated phyton	2	1,500 ^k	3,000
• Saltwater crocodile	3	7,000 ^l	21,000
• Spitting Cobra	1	5,000 ^m	5,000
Sub-Total	130		499,081.5 - 13,107,956.5
Birds			
• Australasian swamphen	1	3,100 ⁿ	3,100
• Egret	1	1,600	1,600
• Goshawk	1	\$180 (Php 9,221) (2021) ^o	Php 9,221 (2021)
• Hawk (Changeable)	1	1,300	1,300
• Hill Mynah	3	2,000 – 8,000 ^p	6,000 – 8,000

^g Source: <https://wildcoast.org/hemet-couple-plead-guilty-to-smuggling-almost-1000-endangered-sea-turtle-eggs/>

^h Source: https://www.traffic.org/site/assets/files/5542/southeast-asian-box-turtle-indonesia.pdf?fbclid=IwAR04RX4EuqZwu_3dG4uKyXtlnEMswgsvisXzpPma9N_b2BunhSMacStr3E

ⁱ Source: <https://chinadialogueocean.net/4096-smugglers-cashing-in-on-sea-turtles/>

^j Source: <https://www.backwaterreptiles.com/snakes/ornate-flying-snake-for-sale.html>

^k Source: <http://www.chitku.ph/Animals/Python+For+Sale+Philippines/acn2c2>

^l Source: <http://www.chitku.ph/Search/q=crocodile&id=53>

^m Source: <https://hourlyhits.com/dema-man-tries-to-sell-snakes-to-cid-detectives/>

ⁿ Source: <https://www.facebook.com/owolabiba/posts/10207853537133124>

^o Source: <https://www.facebook.com>

^p Source: <https://iorbitnews.com/100-wildlife-rescued-7-illegal-traders-nabbed/>

Wildlife Species	Number	Unit Value (in Peso)	Total Estimated Value (in Peso)
• Palawan Hornbill	2	2,500 – 3,000 ^q	5,000 – 6,000
• Philippine blue-naped parrot	7	2,250	15,750
• Heron bird	1	1,600	1,600
• Heron bird (Rufous night)	1	1,600	1,600
• Sea Eagle	3	10,000 ^r	30,000
• Owl (spotted wood)	1	1,300	1,300
Sub-Total	22		74,871 - 79,471
Fish and Marine Invertebrates			
• Giant Clams (Tridacna sp.)	820 kg (164 pcs)	2,000 ^s	1,640,000
• Assorted Shells (dried)	6	500	3,000
• Whiptail Mola	1	4,646 ^t	4,646
Sub-Total	171		1,647,646.00
Grand Total	332		2,546,221.50 - 15,159,696.50

The 332 heads of rescued and turned-over wildlife as also reflected in **Table 3** have an aggregate estimated market value ranging from around **Two million five hundred forty-six thousand pesos** to around **Fifteen million one hundred fifty-nine thousand pesos (Php 2,546,221.50-15,159,696.50)** in the wildlife market. This is broken down as follows: nine (9) mammals, (about **Php 324,623.00**), 130 reptiles (about **Php 499,081.5-13,107,956.5**), 22 birds (about **Php 74,871-79,471**), and 171 fish and marine invertebrates (about **Php 1,647,646.00**).

^q Source: <https://philexoticpets.proboards.com/thread/16/palawan-hornbills-sale>

^r Source: <https://businessmirror.com.ph/2020/06/10/wildlife-trader-charged-over-p20000-offer-to-sell-a-pair-of-lawin-birds/>

^s Source: https://news.mongabay.com/2021/03/surge-in-seizures-of-giant-clam-shells-has-philippine-conservationists-wary/?fbclid=IwAR36aKJPennrClwYA-Teq6UPBLcB-CA39v1p4A7kiGH0xps5jL__CdtYtu8

^t Source: <https://www.thedailymeal.com/giant-sunfish-sale-japanese-grocery-store/101114>

❖ Wildlife Enforcement and Monitoring

In the implementation of R.A. No. 9147 (Wildlife Act), the PCSDS in its efforts to curtail illegal and syndicated wildlife trade, has organized and operationalized fifteen (15) Wildlife Trafficking and Monitoring Units (WTMUs) on identified and strategic air and seaports across the province. These units inspected and verified a total of 264,566 cargoes and 740,981 reef-fish-food (RFF) and other species for shipment outside the province of Palawan, to ensure that these shipments are accompanied by PCSDS-issued wildlife permits. **Figures 69-71** shows the various operations of the Wildlife Traffic Monitoring Officers (WTMOs) during inspection activities.



Figure 69. (Left) Inspection of various cargoes by Wildlife Traffic Monitoring Units (WTMUs) in Puerto Princesa City International Airport. (Right) Inspection by WTMUs for Local Transport Permit (LTP) applications of live fish in Liminangcong, Taytay, Palawan.



Figure 70. (Left) Turnover of Palawan Hornbill from the MENRO Office – Brooke's Point to PCSDS Wildlife Traffic Monitoring Officer (WTMO). (Right) Turnover of 22 pieces of Green Sea turtle carapace and one live Green Sea turtle at Barangay Bancalaan, Balabac, Palawan.



Figure 71. WTMUs during the release of rescued and/or confiscated wildlife including one Monitor Lizard and one Philippine long-tailed macaque (Left). One marine turtle (Right).

In the process of monitoring the cargoes, WTMUs apprehended violators and confiscated 320kg of Giant Clams (*Tridacna* sp.) with an estimated market value of Six hundred forty thousand pesos (Php 640,000). (Table 4).

Table 4. List of Confiscated Items Species by WTMUs, PCSDS, 2021

Confiscated Item	Quantity of Confiscated Items by WTMUs	Estimated Commercial Value per unit (in Peso)	Total Estimated Market Value (in Peso)
Giant Clam or Taklobo (<i>Tridacna</i> sp.)	320 kg (101 dried pieces)	2,000 ^u	640,000.00
Honey	5 gallons	1,550 ^v	7,750.00
Green Grouper (fresh)	4 pieces	200-300	800.00 - 1,200.00
Reef Fish	58 pieces	200-400 ^w	11,600.00 – 23,200.00
Turtle carapace	22 pieces	6,500 ^x	143,000.00
Assorted Shells (dried)	6 pieces	500	3,000.00
Total			806,150.00 - 818,150.00

Meanwhile, the PCSDS Enforcement Team, together with other law enforcement groups, performed a total of **176 enforcement operations**, including 27 surveillance activities, 19 investigations, 12 monitoring, and 57 special monitoring (with summaries of information); and 61 apprehensions. In terms of apprehension activities, corresponding violations are shown in **Table 5**.

^u Source: https://news.mongabay.com/2021/03/surge-in-seizures-of-giant-clam-shells-has-philippine-conservationists-wary/?fbclid=IwAR36aKJPennrClwYA-Teq6UPBLcB-CA39v1p4A7kiGH0xps5jL_CdtYtu8

^v Source: <https://shopee.ph/Wild-Honey-100-Pure-1-Gallon-i.20197515.543445264>

^w Pers. com: Meldred Aquamarine, Cuyo, Palawan

^x Source: https://www.carousell.ph/real-turtle-shell-1079347498/?t-id=quZ81kVozi_1642158209126&t-referrer_browse_type=search_results&t-referrer_context=global_slp&t-referrer_request_id=MpjM1mJcxaAtTKI7&t-referrer_source=search_landing&t-tap_index=5

Table 5. Locational Distribution of Apprehension by PCSDS, 2021.

Municipality/City	No. of Violations			
	Chain Saw Act (RA 9175) / PCSD AO 7	Wildlife Act (RA 9147)	Forestry Code (PD 705)	TOTAL
Aborlan	4		7	11
Brooke's Point	1			1
El Nido	1	4		5
Narra	1	1		2
Puerto Princesa City	22	7	1	30
Quezon	2	1		3
Rizal		4		4
Roxas	2	6		8
TOTAL	33	23	8	64

Table 6. List of Confiscated Wildlife Species by PCSDS Enforcement Team, PCSDS, 2021

Wildlife Species (Fauna)	Quantity of Confiscated Items	Estimated Commercial Value per unit (in Peso)	Total Estimated Market Value (in Peso)
Mammals			
Philippine long-tailed Macaque	2 heads	3,750 ^y	7,500.00
Reptiles			
Marine turtle	1 head	3,200-5,000	3,200.00 – 5,000.00
Reticulated phyton	1 head	1,500 ^z	1,500.00
Birds			
Asian Glossy Starling	1 head	900 ^{aa}	900.00
Palawan Hill Mynah	8 heads	2,000-8,000 ^{bb}	16,000.00 – 64,000.00

^y Source: <https://www.aph.gov.au/DocumentStore.ashx?id=31c2c61a-5f80-41ca-a43e-55fd305c3f62&subId=408086&fbclid=IwAR1pkWilS0q7ok6dxIIP-Rm0WPsULE5ymGSjLYpFSxaiJvMIH3Uq0x23668>

^z Source: <http://www.chitku.ph/Animals/Python+For+Sale+Philippines/acn2c2>

^{aa} Source: https://lipa-city.philippineslisted.com/pets-animals/bonded-pair-asian-glossy-starling-bird-for-sale-only-no-swapping-pls_7219141.html

^{bb} Source: <https://iorbitnews.com/100-wildlife-rescued-7-illegal-traders-nabbed/>

Wildlife Species (Fauna)	Quantity of Confiscated Items	Estimated Commercial Value per unit (in Peso)	Total Estimated Market Value (in Peso)
Palawan Peacock Pheasant	2 heads	12,500 ^{cc}	25,000.00
Fish and Marine Invertebrates			
Clam shell	1 piece (5 inches)	125	125.00
Corals	29 pieces	1,532.75 – 2,554.58	44,449.75 – 74,082.82
Giant Clam or Taklobo (<i>Tridacna</i> sp.)	152,390 kg	2,000 ^{dd}	304,780,000.00
Loba	4 pieces	438 ^{ee}	1,752.00
		Total	304,880,426.75 – 304,959,859.82

Confiscated wildlife species (see Table 6) include 152,390 kg of Giant Clam, two Philippine long-tailed macaques, one marine turtle, one reticulated phyton, eight Palawan Hill Mynah, two Palawan Peacock Pheasant, and 29 pieces of corals, with an estimated value of about **Php 305 million** in the illegal wildlife market.

For the year 2021, the aggregate estimated market value of both confiscated and rescued/turned-over wildlife ranged from **Php 308 million** to **Php 320 million**.

Enforcement Operations Highlights (Wildlife Act violations):

- 1.) 16 April 2021, the PCSDS Enforcement Team, together with partner agencies, seized more than 150 tons of fossilized Giant Clam Shells in Green Island, Barangay Tumarbong, Roxas, Palawan. The activity was a joint operation of PCSDS, PNP Maritime Group Palawan, Philippine Coast Guard Roxas-Palawan, Bantay Dagat Roxas, and Naval Intelligence and Security Group West-Naval Forces West.

^{cc} Source: https://capas.philippineslisted.com/pets-animals/peacockpeahen_4896770.html

^{dd} Source: https://news.mongabay.com/2021/03/surge-in-seizures-of-giant-clam-shells-has-philippine-conservationists-wary/?fbclid=IwAR36aKJPennrClwYA-Teq6UPBLcB-CA39v1p4A7kiGH0xps5jL_CdtYtu8

^{ee} Source: https://www.dfreshly.ph/lapu-lapu-green-grouper?__cf_chl_f_tk=QJnVXp8ZxNlqKkl_ne.PBk9eMkGhDxV2cvCIQ79SZf0-1642216798-0-gaNycGzNCKU



Figure 72. (Left and Right) Fossilized Giant Clam Shells were seized during the enforcement operation in Green Island, Barangay Tumarbong, Roxas, Palawan, on 16 April 2021.

2.) On 9 July 2021, the PCSDS Enforcement Team confiscated various wildlife species in Sitio Manaile, Barangay Dumangueña, Narra, Palawan. These include one Philippine long-tailed Macaque (locally known as *Matsing*), two Palawan Peacock Pheasant (locally known as *Tandikan*), four Palawan Hill Mynah, and one Asian glossy starling (locally known as *Imamadyang*). Also confiscated is one homemade firearm from the perpetrators.



Figure 73. PCSDS confiscated wildlife species including one Philippine long-tailed Macaque (Left) and four Palawan Hill Mynah (Right), on 9 July 2021 in Sitio Manaile, Barangay Dumangueña, Narra, Palawan.

❖ **Implementation of Chain Saw Act (R.A. No. 9175)**

The PCSD also implements R.A. No. 9175, otherwise known as the Chain Saw Act, to pursue an aggressive forest protection program geared towards eliminating illegal logging and other forms of destruction that are being facilitated with the use of chain saws. PCSD, together with the Staff, is continuously strengthening its monitoring capability on the illegal use of chainsaws in the province. For the year 2021, the PCSDS Enforcement Team confiscated a total of 31 chainsaw units and 2,749 board feet of lumber

valued from **One hundred four thousand four hundred sixty-two pesos to Four hundred sixty-one thousand eight hundred thirty-two pesos (Php 104,462-462,832)**. Meanwhile, there were also 80 units of chainsaw turned over by other law enforcement agencies, institutions, and stakeholders to PCSDS for custody. These confiscated and turned over chainsaw units are currently under the custody of the PCSD Evidence Custodian.

Enforcement Operations Highlights (Chainsaw Act violations):

1.) On 8 November 2021, the PCSDS Enforcement Team confiscated one chainsaw unit, along with 20 pieces of round timber of Cansilay wood and 30 pieces of round timber of Catmon wood, in Sitio Letsud, Barangay Corong-Corong, El Nido, Palawan.



Figure 74. (Left) One chainsaw unit, 20 pieces of round timber of Cansilay wood, and 30 pieces of round timber of Catmon wood, were confiscated by the PCSDS Enforcement Team in Sitio Letsud, Barangay Corong-Corong, El Nido, Palawan. (Right) The confiscated chainsaw unit was used by the violators in Barangay Corong-Corong, El Nido, Palawan.

2.) On 14 January 2021, the PCSDS Enforcement Team together with the Peace and Order Program (POP) of the Provincial Government of Palawan confiscated one chainsaw unit and 215.9 board feet of assorted lumber in Barangay Tabon, Quezon, Palawan.

3.) On 12 July 2021, the PCSDS Enforcement Team confiscated one chainsaw unit in Sandiwa, Barangay Santa Monica, Puerto Princesa City.

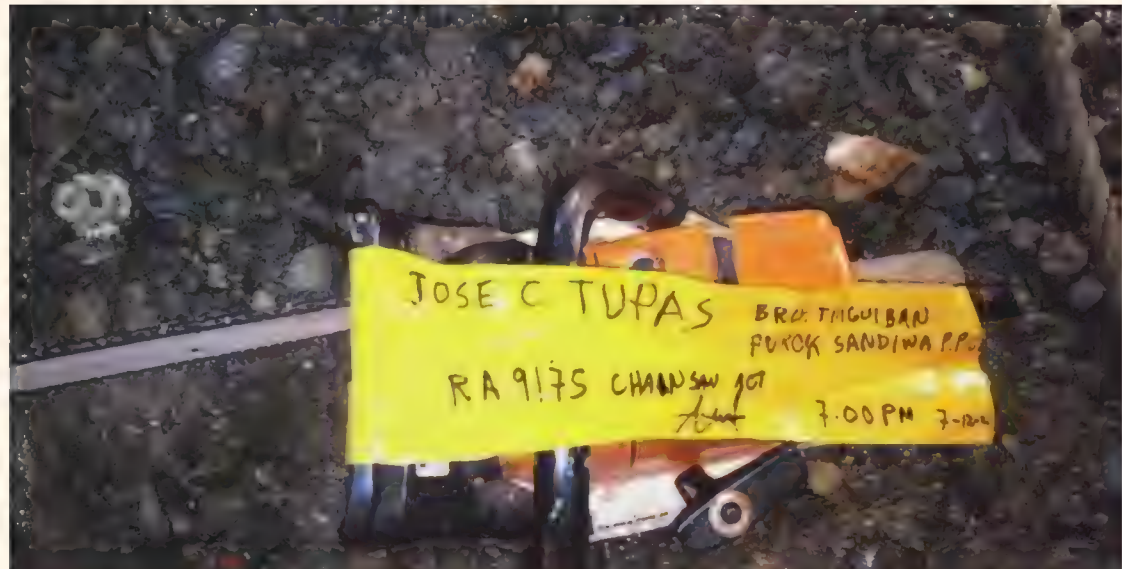


Figure 75. Confiscated chainsaw unit in Sandiwa, Barangay Santa Monica, Puerto Princesa City, 12 July 2021.

4.) On 16 July 2021, the PCSDS Enforcement Team confiscated one unit of chainsaw in Maranan, Barangay Calategas, Narra, Palawan.



Figure 76. One (1) unit of chainsaw was confiscated in Maranan, Barangay Calategas, Narra, Palawan.

Relative to the overall operations of the Enforcement Team and WTMUs, **Figure 77** illustrates the distribution of apprehensions by PCSDS and partners, while **Figures 78-79** reflect the various operations of the PCSDS Enforcement Team on lumber confiscation.

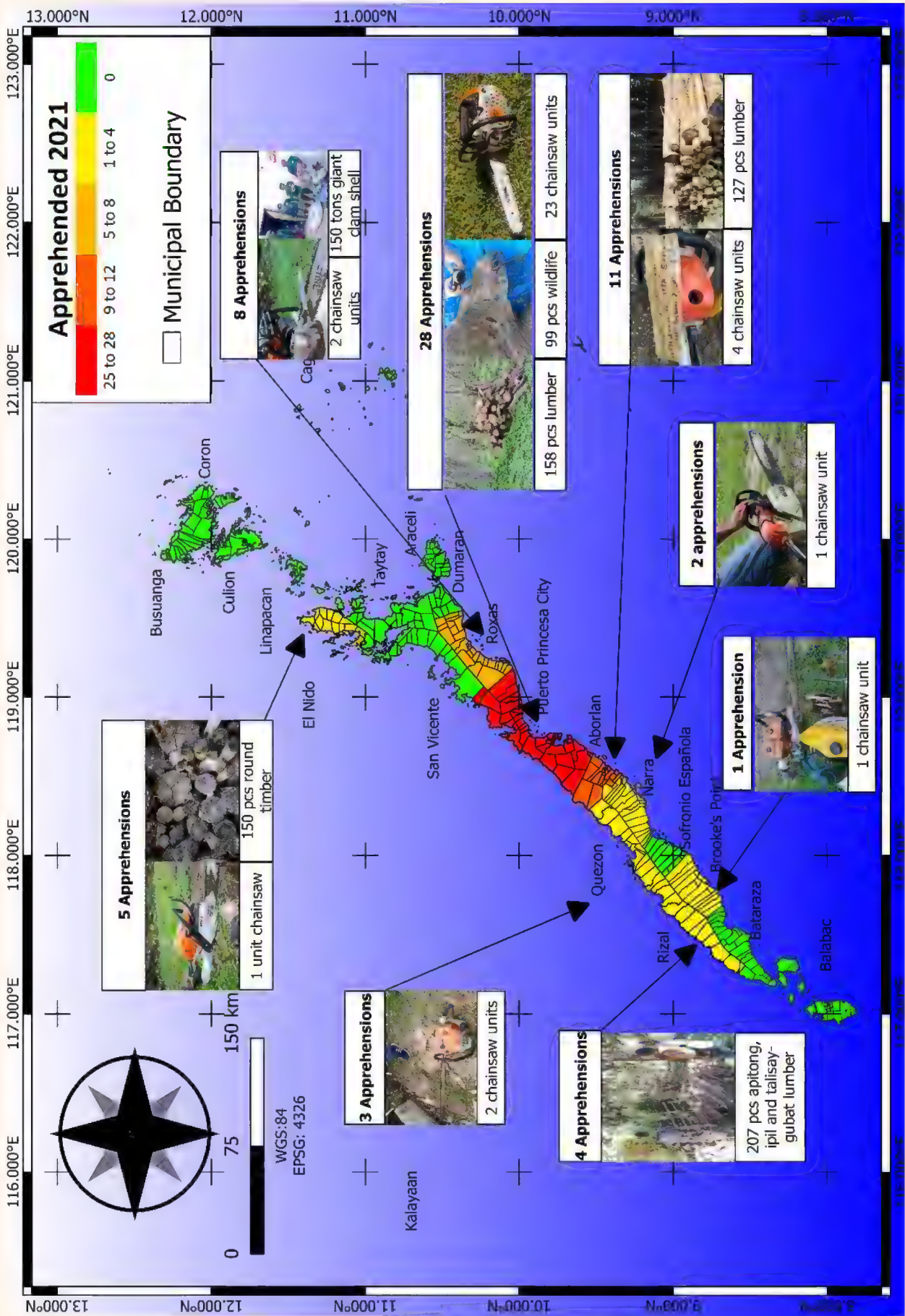


Figure 77. Map showing the distribution of apprehensions by PCSDS and partner enforcement agencies/groups, including the confiscated items.



Figure 78. (Top left and right photos) Confiscated 775 board feet of Ipil lumber in Barangay Bunog, Rizal, Palawan, on 8 July 2021. (Bottom left and right photos) Confiscated 80 pieces of Apitong and Ipil lumber in Barangay Rizal, Roxas, Palawan.



Figure 79. (Top left and right photos) Confiscated 540 board feet of Apitong (87 pieces) in Barangay Nacpan, El Nido, Palawan, on 9 November 2021. (Bottom left and right photos) Confiscated 1,504.6 board feet of Ipil lumbers in Lublob, Barangay Pasadena, El Nido, Palawan, on 9 November 2021.

❖ *Legal Services*

Corresponding to the enforcement operations discussed before, the PCSDS Legal Services Unit and partners filed a total of **23 administrative cases** before the PCSD Adjudication Board (PAB) and **seven criminal cases** before the Provincial Prosecutor's Office. These include **two administrative and three criminal cases** filed against the perpetrators of violations of R.A. No. 9147 (Wildlife Act) (**Figure 80**), and **21 administrative and two criminal cases** filed against violators of R.A. No. 9175 (Chain Saw Act) (see **Figure 81**).

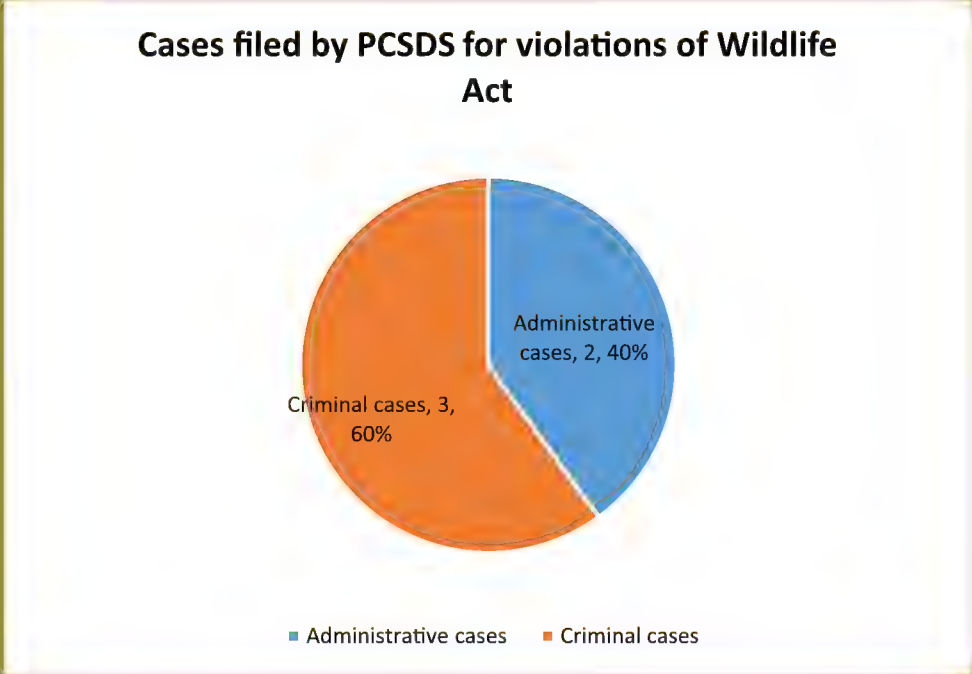


Figure 80. Administrative and Criminal Cases filed for violations of Republic Act No. 9147 or the Wildlife Resources Conservation and Protection Act.

Cases Filed by PCSDS for illegal use/possession of chainsaw

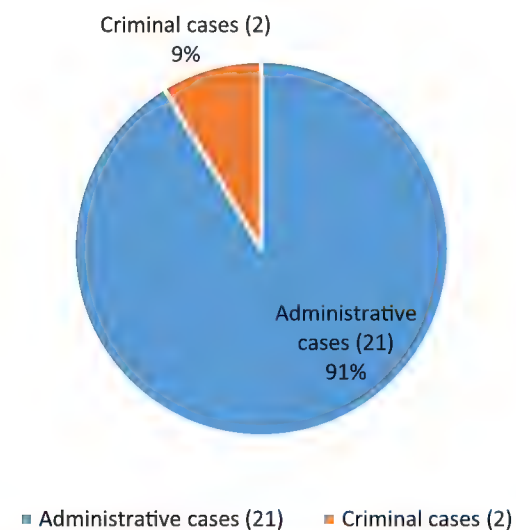


Figure 81. Administrative and Criminal Cases filed by PCSDS for illegal use/possession of chainsaw (under Republic Act No. 9175 or the Chain Saw Act of 2002).

The staff also served as Special Prosecutor and appeared in various PCSDS-initiated criminal cases pending in different trial courts.

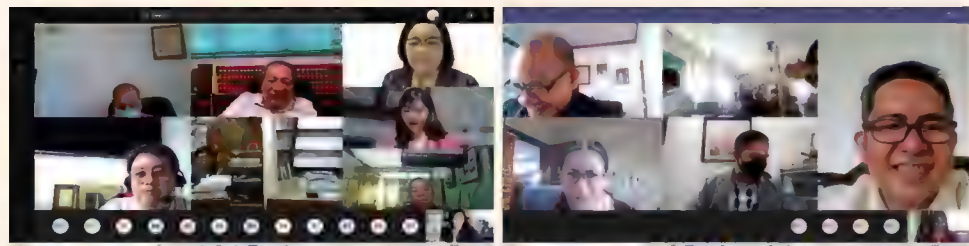


Figure 82. Atty. Joanna Sarah Diva and other attendees during the virtual hearing of PCSDS-initiated criminal cases.

Meanwhile, all evidences of administrative and criminal cases (including confiscated wildlife, chainsaw, and other equipment) were all properly handled by the PCSDS Evidence Custodian under the Legal Services Unit. The confiscated wildlife individuals were properly turned over to the PWRCC or released back into the wild, while confiscated chainsaw units and other equipment and items were properly stored.



Figure 83. (Left and Right) PCSD Staff properly burying dead wildlife confiscated from one of their enforcement operations.

3. Special Programs/Projects

Aside from the projects and activities implemented by PCSDS under the Palawan ECAN Management Program, other projects were accomplished in 2021 as instructed by the Council.

a. Strategic and Operational Planning for KIG

Aligned with the task to assist in the development of the Kalayaan Islands Group (KIG), the PCSDS, Western Command, LGU Kalayaan, and other national and local government offices/agencies initiated the creation of the Inter-Agency Task Force – Kalayaan Islands Group – Technical Working Committee (IATF-KIG-TWC) in August 2020.

The PCSDS ECAN Policy Research and Planning Division (EPRPD) serves as the secretariat to the IATF-KIG-TWC, including its four sectoral groups: (1) Governance, Safety, and Security Sector; (2) Infrastructure and Institutional Sector; (3) Bio-Physical Environment Sector; and (4) Socio-economic Sector. For 2021, the Staff and partner agency committee members continued on the efforts and initiatives of the IATF-KIG-TWC. Majority of the activities undertaken include the enhancement of the ten-year Strategic Development Plan (SDP) for KIG, detailing the priority plans and programs for the protection and sustainable development of the nine Philippine Features in the West Philippine Sea (WPS).

The Staff and partners facilitated the adoption of the SDP by the Local Government of Kalayaan, the Sangguniang Panlalawigan (SP) of the Province of Palawan, the MIMAROPA Regional Development Council of the National Economic and Development Authority (NEDA-RDC MIMAROPA), and the Inter-Agency Technical Working Committee of the National Task Force - West Philippine Sea (NTF-West).

The PCSDS, being the committee's secretariat, was able to co-convene two general semestral assembly meetings of the IATF-KIG-TWC, and 11 sectoral meetings. (see **Figures 84-85**)



Figure 84. The members of the IATF-KIG Technical Working Committee (TWC) and their secretariat, during the 2nd meeting of the said committee on March 2021.

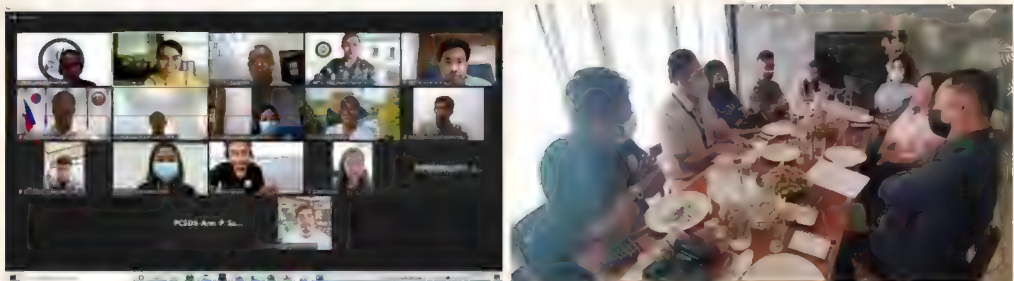


Figure 85. (Left) Virtual meeting (via Zoom) of the Institutional and Infrastructure Sector of the IATF-KIG-TWC. (Right) Virtual meeting of the Socio-economic Sector of the IATF-KIG-TWC.

Major outputs of the sectoral groups include the preparation of the Procedural Guidelines on the Selection of Potential Settlers for Kalayaan Island Group under the Human Settlement Program – Phase 2, and the Carrying Capacity Study for four habitable features in the KIG. Both documents were subsequently adopted by the Local Government of Kalayaan and were instrumental in the vetting process of potential settlers on the island.

b. Area Task Force for West Philippine Sea (ATF-West) Information, Education and Communications Task Group (IECTG)

Under the Governance and Security Sector, PCSDS together with the Public Affairs Office of Western Command facilitated the airing of West Philippine Sea 101 under the IEC Task Group of ATF-West. PCSDS, likewise sits as the IECTG Chairperson leading the group, organized a total of nine meetings, focused on establishing the network and brainstorming ideas for activities on laymanizing the information about the West Philippine Sea for the general public. The group spearheaded the conduct of a six-part webinar on West Philippine Sea, featuring experts from the government sector aired live via Zoom and Facebook.

4. Gender and Development (GAD)

The Staff prepared the 2020 Gender and Development (GAD) Accomplishment Report and the 2022 GAD Plan and Budget forwarded to the Philippine Commission on Women (PCW). The same set of submissions was forwarded to the DENR and DBM as part of the FY 2022 PCSDS Work and Financial Plan (WFP).

B. Financial Statements (Allotment, Obligation and Disbursement)

For 2021, despite the limitations brought about by the COVID-19 pandemic and community quarantine, the PCSDS was able to utilize **99.45%** of its annual allotment of **Php 123.354M** (which includes the Continuing Appropriations from FY 2020). The agency is also able to disburse **Php 120.727M (98.41%)** out of its obligations of **Php 122.680M**. In terms of PCSDS budget for its operations (i.e., Maintenance and Other Operating Expenses (MOOE) and Capital Outlay (CO)), the agency attained a **98.98%** obligations budget utilization rate (BUR) and **95.92%** disbursements BUR.

C. Policies Issued

The following table presents the list of issued PCSD Resolutions passed by the Council during its regular meetings and committee assemblies (**Table 7**).

Table 7. List of PCSD Resolutions in 2021.

PCSD Resolution No.	Title
21-758	“APPROVING THE AMENDMENT TO THE ECAN ZONES MAP OF THE MUNICIPALITY OF ABORLAN, PALAWAN, SUBJECT TO THE EXCLUSION OF THE WATERSHED AREA WITHIN LONG POINT TO BE DELINEATED BY THE PCSDS”
21-759	“AUTHORIZING EXECUTIVE DIRECTOR TEODORO JOSE S. MATTA TO ACT AS PCSD REPRESENTATIVE AND SIGNATORY TO THE MEMORANDUM OF AGREEMENT (MOA) WITH MR. SAID ALIH K. SHA AND TO NEGOTIATE FUNDINGS FOR THE PILANDOK RESCUE CONSERVATION CENTER”
21-760	“AMENDING SECTION 22 ON PROHIBITED ACTS AND SECTION 23 ON PENALTY OF THE REVISED PCSD ADMINISTRATIVE ORDER NO. 6, SERIES OF 2014”
21-761	“AUTHORIZING THE PCSDS EXECUTIVE DIRECTOR ATTY. TEODORO JOSE S. MATTA TO REPRESENT THE COUNCIL, EITHER PERSONALLY OR THROUGH HIS AUTHORIZED REPRESENTATIVE, IN ALL LEGAL PROCEEDINGS OR ACTION IN CIVIL CASE NO. 6023, ENTITLED MERLY M. LAGAN, ET. AL VS. DMCI POWER CORPORATION ET. AL FOR ENVIRONMENTAL PROTECTION ORDER AND WRIT OF CONTINUING MANDAMUS WITH PRAYER FOR THE ISSUANCE OF A TEMPORARY ENVIRONMENTAL PROTECTION ORDER, LODGED AT BRANCH 51 OF THE REGIONAL TRIAL COURT OF PALAWAN AND PUERTO PRINCESA CITY”
21-762	“AUTHORIZING GOVERNOR JOSE CH. ALVAREZ, CHAIRMAN OF THE PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT TO ENTER INTO AND SIGN A MEMORANDUM OF UNDERSTANDING FOR THE SAFE WATER PROJECT FOR AND ON BEHALF OF THE PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT (PCSD) WITH THE U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)/PHILIPPINES”
21-763	“APPROVING THE TEN-YEAR MUNICIPAL ECOLOGICAL SOLID WASTE MANAGEMENT PLAN 2019-2028 OF THE MUNICIPAL GOVERNMENT OF CULION”
21-764	“DESIGNATING 153 HECTARES OF THE WATERSHED AREA IN LONG POINT AS “BUFFER ZONE: RESTRICTED-USE AREA” IN THE AMENDED ECAN MAP OF ABORLAN UNDER PCSD RESOLUTION NO. 21-758”

PCSD Resolution No.	Title
21-765	"SUSPENDING THE IMPLEMENTATION OF THE CLOSED SEASON OF THE LIVE-REEF-FISH-FOR-FOOD (LRFF) FROM MARCH 1 TO MAY 31, 2021 UNDER PCSD ADMINISTRATIVE ORDER NO. 05, AS AMENDED, DUE TO THE COVID-19 PANDEMIC"
21-766	"RESOLUTION AMENDING PCSD RESOLUTION NO. 06-270 TO PROHIBIT THE USE OF CORE ZONES FOR ECO-TOURISM ACTIVITIES, IN ACCORDANCE WITH SECTION 9 OF REPUBLIC ACT NO. 7611 OR THE STRATEGIC ENVIRONMENTAL PLAN (SEP) FOR PALAWAN ACT"
21-767	"RATIFYING AND CONFIRMING RESOLUTION NO. 21-765, SUSPENDING THE IMPLEMENTATION OF THE CLOSED SEASON OF THE LIVE-REEF-FISH-FOR-FOOD (LRFF) FROM MARCH 1 TO MAY 31, 2021 UNDER PCSD ADMINISTRATIVE ORDER NO. 05, AS AMENDED, DUE TO THE COVID-19 PANDEMIC"
21-768	"REITERATING THE EXISTING BAN IN COLLECTING, POSSESSING, TRANSPORTING, TRADING AND ALL OTHER DEALINGS IN GIANT CLAMS AND ITS BY-PRODUCTS AND DERIVATIVES, INCLUDING ITS SHELLS, IN THE PROVINCE OF PALAWAN, EXCEPT FOR SCIENTIFIC, OR BREEDING OR PROPAGATION PURPOSES BY ACCREDITED INDIVIDUALS AND ENTITIES"
21-769	"DIRECTING THE PCSD STAFF TO CONDUCT A STUDY FOR THE AMENDMENT OF PCSD RESOLUTION NO. 05-250"
21-770	"REVISING SECTIONS 6 AND 7 OF PCSD RESOLUTION NO. 05-250, OTHERWISE KNOWN AS THE "REVISED GUIDELINES IN IMPLEMENTING THE ENVIRONMENTALLY CRITICAL AREAS NETWORK (ECAN), THE MAIN STRATEGY OF THE SEP FOR PALAWAN ACT (RA 7611)"
21-771	"APPOINTING MR. FERDINAND M. ZABALLA AS ONE OF THE MEMBERS OF PCSD ADJUDICATION BOARD (PAB)"
21-772	"AMENDING PCSD RESOLUTION NO. 20-717 ON THE RECLASSIFICATION UNDER "CATEGORY C" OF ALL PROJECTS RELATED TO THE INSTALLATION AND OPERATIONS OF TELECOMMUNICATION, BROADCAST TOWERS, FACILITIES, EQUIPMENT, AND SERVICE IN PALAWAN"
21-773	"RATIFYING AND CONFIRMING THE ACTIONS TAKEN BY THE EXECUTIVE COMMITTEE IN ITS 277th MEETING HELD ON MARCH 25, 2021 AT PUERTO PRINCESA CITY"
21-774	"APPROVING THE AMENDMENT TO THE ECAN ZONES

PCSD Resolution No.	Title
	MAP OF THE MUNICIPALITY OF QUEZON"
21-775	"APPROVING THE AMENDMENT TO THE ECAN ZONES MAP OF THE MUNICIPALITY OF BATARAZA"
21-776	"ADOPTING THE INITIAL LIST OF ECONOMICALLY IMPORTANT SPECIES OF TERRESTRIAL AND AQUATIC FLORA AND FAUNA IN PALAWAN"
21-777	"APPROVING THE AMENDMENT TO THE ECAN ZONES MAP OF THE MUNICIPALITY OF SAN VICENTE"
21-778	"URGING MUNICIPALITIES IN THE PROVINCE OF PALAWAN TO IDENTIFY NEW AREAS OF 0-500 METERS ABOVE SEA LEVEL ELEVATION WITH A MINIMUM COVERAGE OF 2,000 HECTARES AS RESTRICTED-USE ZONE, FOLLOWING THE EXAMPLE OF THE LOCAL GOVERNMENT UNIT OF SAN VICENTE IN THEIR UPDATED ECAN ZONES MAP"
21-779	"A RESOLUTION OF PCSD's COMMITMENT OF SUPPORT TO THE DEVELOPMENT OF COUNTRY PROPOSAL OF THE WORLD BANK (WB) GLOBAL PROGRAM ON SUSTAINABILITY (GPS) ON NATURAL CAPITAL ACCOUNTING AND APPROACHES (NCA) AND THE ECONOMICS OF SUSTAINABILITY AND AUTHORIZING THE ENGAGEMENT OF THE PCSD STAFF ON ITS BEHALF, AND ENDORSING THE SAME FOR SUPPORT OF THE PHILIPPINE STATISTICS AUTHORITY (PSA) AND THE INTERAGENCY TASK FORCE ON ENVIRONMENT AND NATURAL RESOURCES STATISTICS (ITFENRS)"
21-780	"RATIFYING AND CONFIRMING THE ACTIONS TAKEN BY THE EXECUTIVE COMMITTEE IN ITS 281st MEETING HELD ON JULY 28, 2021 AT PUERTO PRINCESA CITY"
21-781	"SOLICITING THE DONATION OF THE MV PALAWAN COAST FROM THE PROVINCIAL GOVERNMENT OF PALAWAN AND AUTHORIZING THE EXECUTIVE DIRECTOR TO REPRESENT THE COUNCIL TO SIGN ANY DOCUMENT OR AGREEMENT FOR THIS PURPOSE"
21-782	"ADOPTING ENRC RESOLUTION NO. 2021-02, DOWNGRADING THE INDO-PACIFIC CROCODILE CROCODYLUS POROSUS FROM APPENDIX I TO APPENDIX II OF THE CONVENTION ON INTERNATIONAL TRADE OF ENDANGERED SPECIES OF WILD FAUNA AND FLORA (CITES)"
21-783	"REINSTATING THE SEP CLEARANCE NO. MODP-122110-001 ISSUED TO IPILAN NICKEL CORPORATION FOR THE PROJECT IPILAN NICKEL PROJECT MINING OPERATION

PCSD Resolution No.	Title
	AND DEVELOPMENT LOCATED AT BARANGAYS IPILAN, MAMBALOT, MAASIN AND CALASAGUEN, BROOKE'S POINT, PALAWAN"
21-784	"DEPUTIZING TWENTY-ONE (21) WILDLIFE ENFORCEMENT OFFICERS (WEO) PURSUANT TO SECTION 30 OF THE REPUBLIC ACT NO. 9147, OTHERWISE KNOWN AS THE WILDLIFE RESOURCES CONSERVATION AND PROTECTION ACT, AND AUTHORIZING PCSDS EXECUTIVE DIRECTOR ATTY. TEODORO JOSE S. MATTA TO ADMINISTER THEIR OATH"
21-785	"RECOGNIZING WITH GRATEFUL APPRECIATION HONORABLE VICE GOVERNOR VICTORINO DENNIS M. SOCRATES FOR HIS EXEMPLARY PERFORMANCE, COMMITMENT, AND VALUABLE CONTRIBUTIONS AS VICE-CHAIR OF THE PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT FROM JULY 26, 2013 TO AUGUST 31, 2021"
21-786	"ENDORING THE KIBBUTZ FARMING SYSTEM: A PLATFORM FOR COMMUNITY-BASED RURAL SOCIO-ECONOMIC DEVELOPMENT OF THE BATANGAS KIBBUTZ FARM CORPORATION TO THE PROVINCIAL GOVERNMENT OF PALAWAN, SANGGUNIANG PANLALAWIGAN, AND THE LOCAL GOVERNMENT UNITS OF PALAWAN"
21-787	"ENDORING TO THE DENR, NEDA, DFA, AND OTHER APPROPRIATE PHILIPPINE GOVERNMENT AGENCIES THE ENVIRONMENT AND NATURAL RESOURCES INFORMATION SYSTEM (ENRIS) SPATIAL DECISION SUPPORT FOR PALAWAN ISLAND ECO-REGION PROJECT PROPOSAL, AND AUTHORIZING PCSDS EXECUTIVE DIRECTOR TEODORO JOSE S. MATTA TO NEGOTIATE ON BEHALF OF THE PCSD"
21-788	"ENDORING THE PROJECT PROPOSAL ENTITLED "STRENGTHENING MONITORING, SURVEILLANCE AND LAW ENFORCEMENT TO SAFEGUARD ECOSYSTEM SERVICES FOR NATIONAL AND GLOBAL FOOD SECURITY IN THE TUBBATAHA REEFS NATURAL PARK (TRNP), A UNESCO WORLD HERITAGE SITE AND PARTICULARLY SENSITIVE SEA AREA (PSSA) UNDER THE INTERNATIONAL MARITIME ORGANIZATION (IMO)" TO THE DENR, NEDA, DFA AND OTHER APPROPRIATE PHILIPPINE GOVERNMENT AGENCIES AND AUTHORIZING PCSDS EXECUTIVE DIRECTOR TEODORO JOSE S. MATTA TO NEGOTIATE IN BEHALF OF THE PCSD"
21-789	"APPROVING THE MEMORANDUM OF AGREEMENT (MOA) ON THE SUSTAINABLE FINANCING AND EFFECTIVE CO-MANAGEMENT OF MARINE PROTECTED AREAS IN CALAMIANES GROUP OF ISLANDS, PALAWAN BETWEEN

PCSD Resolution No.	Title
	THE PCSDS AND THE BLUE FINANCE, AND AUTHORIZING PCSDS EXECUTIVE DIRECTOR TEODORO JOSE S. MATTA TO ACT AS PCSD REPRESENTATIVE AND SIGNATORY TO THE MEMORANDUM OF AGREEMENT"
21-790	"AMENDING PCSD RESOLUTION NO. 21-765 PARTIALLY LIFTING THE CLOSE SEASON FOR THE YEAR 2022"
21-791	"ADOPTING ENRC RESOLUTION NO. 2021-02, APPROVING THE GUIDELINES OF PAYMENT FOR ECOSYSTEM SERVICES"
21-792	"RECOGNIZING WITH GRATEFUL APPRECIATION UNDERSECRETARY RODOLFO C. GARCIA OF THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (DENR) FOR HIS EXEMPLARY PERFORMANCE, COMMITMENT, AND VALUABLE CONTRIBUTIONS AS MEMBER OF THE PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT FROM JULY 25, 2018 TO SEPTEMBER 30, 2021"
21-793	"AMENDING SECTION 8 OF PCSD ADMINISTRATIVE ORDER NO. 6"
21-794	"APPROVING THE ONLINE PAYMENT PORTAL OF THE PAYNAMICS TECHNOLOGIES INC. TO BE INTEGRATED WITH THE PCSD BRAIN SYSTEM AND AUTHORIZING THE EXECUTIVE DIRECTOR TO SIGN THE CONTRACT FOR ITS IMPLEMENTATION"
21-795	"APPOINTING NIÑO REY C. ESTOYA, MNSA TO THE POSITION OF DIRECTOR II, SALARY GRADE 26, PERMANENT STATUS"
21-796	"RECOGNIZING WITH GRATEFUL APPRECIATION ATTY. JANSEN I. JONTILA FOR HIS EXEMPLARY PERFORMANCE, COMMITMENT, AND VALUABLE CONTRIBUTIONS AS MEMBER OF THE PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT FROM NOVEMBER 18, 2016 TO DECEMBER 9, 2021"

Table 8. List of PCSD Environmental and Natural Resources Committee (ENRC) Resolutions in 2021.

ENRC Resolution No.	Title
Sub-committee on Economically Important	RECOMMENDING TO PCSD EN BANC THROUGH A RESOLUTION THE APPROVAL OF THE INITIAL LIST OF
Species Conservation and Management Resolution No. 2021-01	ECONOMICALLY IMPORTANT SPECIES OF FLORA AND FAUNA
ENRC Resolution No. 2021-02	RECOMMENDING TO THE PCSD EN BANC THE ENDORSEMENT OF THE PROPOSED DOWNGRADING OF INDO-PACIFIC CROCODILE FROM APPENDIX I TO APPENDIX II OF THE CITES
ENRC Resolution No. 2021-03	RECOMMENDING TO THE PCSD EN BANC THE APPROVAL OF THE PROPOSED GUIDELINES ON PAYMENT FOR ECOSYSTEM SERVICES
Joint ENRC and LIAC Resolutions	Title
Joint ENRC and LIAC Resolution No. 2021-01	RECOMMENDING TO THE PCSD EN BANC THE APPROVAL OF THE PROPOSED ECAN ZONES MAP OF MUNICIPALITY OF QUEZON
Joint ENRC and LIAC Resolution No. 2021-02	FORWARDING TO THE PCSD EN BANC THE RESULTS OF THE BIODIVERSITY RESOURCE ASSESSMENT IN THE MUNICIPALITY OF BATARAZA FOR INFORMATION AND APPROPRIATE ACTION
Joint ENRC and LIAC Resolution No. 2021-03	RECOMMENDING TO THE PCSD EN BANC THE APPROVAL OF THE PROPOSED ECAN ZONES MAP UPDATING OF THE MUNICIPALITY OF SAN VICENTE, PALAWAN

III. AGENCY MANAGEMENT DISCUSSION AND ANALYSIS OF PRIORITY PROGRAMS/PROJECTS

A. Agency Targets in the Budget Accountability Report (BAR)

1. Outcome Indicator 1: Management of ECAN (Environmentally Critical Areas Network) Strengthened

The ECAN Zones Scorecard is a tool developed by PCSDS that comprises a scorecard checklist of parameters to quantitatively measure the management effectiveness of ECAN Zones by the ECAN Boards. These include aspects of ECAN Management context, planning, inputs, process, outputs and outcomes. Specific criteria include ECAN map and ECAN Zones Management Plan (EZMP) adoption, regularity of ECAN Board Meetings, consistent allocation of budget for

ECAN programs and projects, the conduct of IEC campaigns, mainstreaming of ECAN into the municipal Comprehensive Land Use Plan, legislative support, monitoring and evaluation (M&E), financial sustainability and demonstration of tangible benefits from ECAN projects. In 2021, the **average score** of the 23 municipalities and one city ECAN Boards was recorded at about **34.49%** (see **Figure 86**), with the ECAN Board of Roxas attaining the highest score (**59.43%**), among the municipalities evaluated. This accounts for a 4% increase from the 2020 average score of 32.96%. However, this is still lower than the annual target of 50.92%, which can be attributed to the limitations of the mobility of PCSD Staff and partner LGU officials and technical staff brought about by travel restrictions and community quarantine as a result of the COVID-19 pandemic.

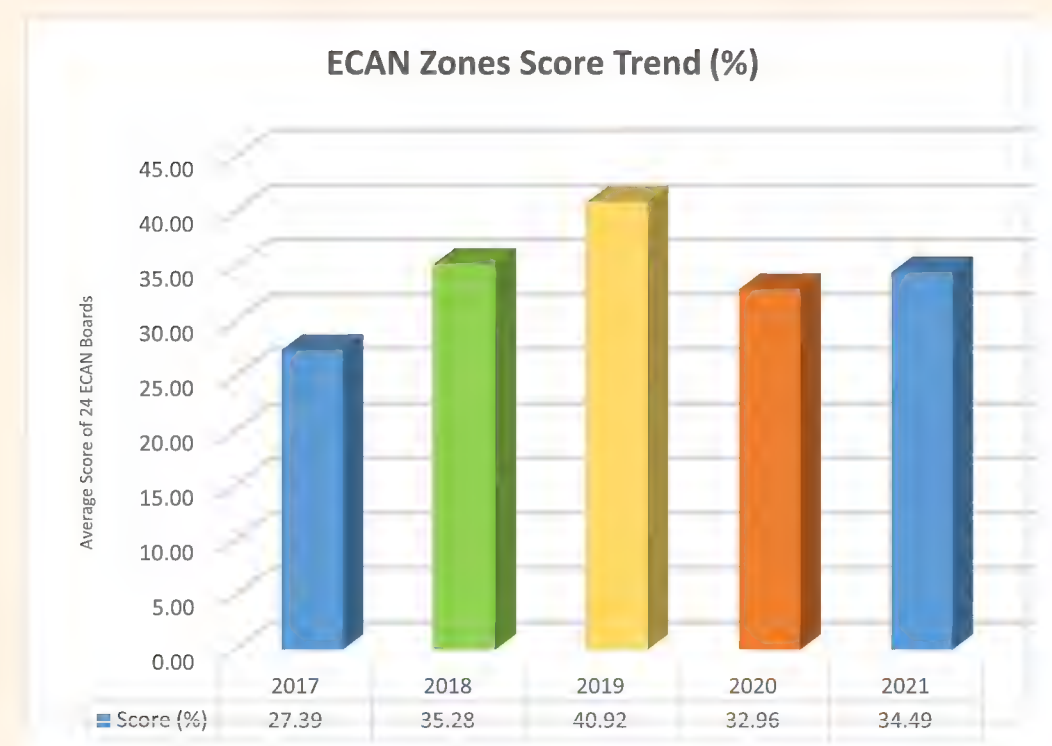


Figure 86. Average of scores of 24 municipal/city ECAN Boards computed through the ECAN Zones Scorecard from 2017-2021.

2. Outcome Indicator 2: Reduction of Environmental Crimes

Out of the total annual target of 0.51% ratio, the PCSDS accomplished a **0.07% ratio** of total seized wildlife (4 confiscations on regulated wildlife species) to total wild-sourced trade permits issued (5,779 in total) in 2021. This accomplishment is lower than the 2020 ratio of **0.36%**. The decrease in the ratio may be attributed to the decrease in wildlife confiscations of regulated species, from 17 (in 2020) to 4 (in 2021), given the same scope, frequency and level of enforcement operations. This may indicate an increase in stakeholders' awareness, appreciation of wildlife resources and their conservation and potentially due to the increase in the number of wildlife permit applications from 4,768 (in 2020) to 5,779 (in 2021).

3. Output Indicator 1: Updating of ECAN Maps

As discussed earlier, the Staff facilitated the updating of five municipal ECAN Maps in Palawan, specifically for: Cuyo, Magsaysay, Araceli, Sofronio Española, and Culion. Among the major updates included by the local government units is the inclusion of the coastal marine ECAN zones as well as the identification of watershed areas at the barangay level.

4. Output Indicator 2: Operationalization of Wildlife Traffic Monitoring Units (WTMUs)

Out of the 15 WTMUs targeted to continue operating in 2021, the Staff was able to achieve 100% operation of all targets located in the following strategic air and sea ports:

- a. Puerto Princesa City Pier

b. Puerto Princesa City Airport

c. El Nido Airstrip

d. Coron Pier

e. Busuanga Airstrip

f. Cuyo Pier

g. Magsaysay Airstrip
- h. Quezon Airstrip

i. Brooke's Point Pier

j. Liminangcong (Taytay) Pier

k. El Nido Pier

l. Balabac Pier

m. Rizal Airstrip

n. Agutaya Pier

o. San Vicente Airport

5. Output Indicator 3: Population Studies on Threatened and Endemic Species

The staff was able to complete two population studies for the two threatened species in Palawan: the Nicobar pigeon (*Caloenas nicobarica*, Linnaeus 1758) and the Asian small-clawed otter (*Aonyx cinereus*, Illiger, 1815).

B. Significant Progress or Milestones

1. Updating of ECAN Maps

Considering the acquisition of new and relevant information on the environmental condition of the terrestrial, coastal/marine areas, and tribal ancestral zones, the updating of the PCSD approved 2006 ECAN maps of the 23 municipalities and one city is continuously being undertaken by PCSDS in partnership with the concerned LGUs.

Considering ECAN as the spatial planning basis for updating their respective Comprehensive Land and Water Use Plans (CLWUPs), the use of updated and ground validated ECAN maps is an important input, ensuring the attainment of balanced economic development and sound environmental management. For 2021, five ECAN maps were updated, totaling the updated maps to 19 out of 24 local government units of the province.

2. Re-Certification of ISO 9001:2015

The PCSDS successfully passed the **Quality Management System (QMS) Audit** conducted in September 2021 by TÜV Rheinland, a third-party auditor. Thus, it was able to secure its ISO 9001:2015 Re-Certification (**Figure 87**) from its initial certification in 2018 for the Puerto Princesa main office and the three district offices. The QMS presents an aggregate of all documented processes,

resources, assets and core values that support the goal of customer satisfaction and organizational efficiency.



Figure 87. Certifications awarded by the third-party auditor TÜV Rheinland to PCSDS on ISO 9001: 2015 or the Quality Management System (QMS) for 2018-2021 (left) and 2021-2024 (right).

3. Mercury Research in Palawan Quicksilver Mines, Inc. (PQMI)

The Palawan Knowledge Platform (PKP) collaborative research entitled “*Study of Mercury in Humans and Wildlife (Flora and Fauna) from the former Palawan Quicksilver Mines, Inc. (PQMI) located in Sta. Lourdes, Puerto Princesa City, Palawan*” was conducted in 2021. Samples of human hairs from selected residents within the vicinity of the old mine site as well as samples of wild flora and fauna were collected and sent to the Philippine Nuclear Research Institute (PNRI) for analysis. A total of **2,510 samples** from the primary and secondary impact areas were collected in phases:

- 2019 (Phase I, 134 samples from areas near the abandoned pit lake);
- 2020 (Phase II, 904 samples from the entire Barangay Sta. Lourdes); and
- 2021 (Phase III, 1,472 samples from the secondary impact areas or the barangays adjacent to Sta. Lourdes).

Phase IV (Puerto Princesa bay and the coastal areas in the city) will commence in 2022. The study aims to assess the extent of mercury contamination in the immediate vicinity and primary impact areas as the basis of decision making on whether there is a need to relocate the community within the nearby areas.

4. Establishment and Strengthening of Inter-Agency Collaboration for the Sustainable Development of KIG

The PCSDS was able to mobilize an inter-agency collaboration composed of 41 local and national member agencies. To continuously develop and implement the Strategic Development Plan (SDP) and Action Plan (AP), continuous meetings and reporting sessions were simultaneously conducted among the four sectoral committees for the past year, leading to the attainment of most of the target activities for 2021. The ten-year Strategic Development Plan for KIG was developed in 2020, and enhanced further in 2021, with endorsements secured from the Sangguniang Bayan of Kalayaan, Sangguniang Panlalawigan of Palawan, MIMAROPA Regional Development Council, and National Task Force for the West Philippine Sea (NTF-West). Identified priority actions were taken care of by agency takers based on their corresponding approved agency workplan. The SDP is likewise instrumental in relieving the patrimony of the Filipinos in taking care of the resources that are rightfully ours.

5. Implementation of the Biodiversity Resources Access Information Network (BRAIN)

To keep up with the digital age and to ensure effective delivery of services remotely amidst the limited staff mobility in the height of the Covid-19 pandemic, the BRAIN was launched in May 2020. The system, aside from online transactions and permitting system, is expected to accommodate enforcement management called Rapid Enforcement Support, Planning, Operation and Network Enhancement (RESPONSE) cases and evidence management, as well as the management information system (MIS). The BRAIN online permitting system was fully implemented in 2021.

6. Recognition of Best ECAN Board for Effective ECAN Management

The Best ECAN Board Award is an annual award to the best performing municipal ECAN Board to motivate and provide incentives to local governments and ECAN Boards for effective and efficient management of ECAN zones in their respective areas. All 24 LGUs/ECAN Boards in Palawan are eligible to compete. Collective scores are computed and analyzed using the ECAN Zones Scorecard to determine the awardee. For 2021, the Best ECAN Board was awarded to LGU Roxas, collecting the highest score of 59.43% (Figure 88).



Figure 88. Announcement by PCSDS of the municipality of Roxas as the recipient of the 2021 Best ECAN Board Award, via the official Facebook page of PCSD on 23 December 2021.

7. PCSDS Publications

The PCSDS regularly produces two publications: the *"Our Palawan" Scientific Journal* and the *"State of the Environment of Palawan" Report*. The former is an annual publication while the latter is published every five (5) years. The maiden publication of *Our Palawan* was in 2015. Since then, six volumes had been generated and published (see **Figures 89-91**). The *Our Palawan* is a peer-reviewed journal and serves as an available platform for sharing research works in Palawan by students, professionals and experts. The academic reviewers come from PCSDS' international, national and local partner institutions.



Figure 89. Cover pages of the *"Our Palawan" Scientific Journal* for the following issues: 2015 Volume 1, Issue 1 (left); 2016 Volume 2, Issue 1 (center); and 2016 Volume 2, Issue 2 (right).



Figure 90. Cover pages of the *"Our Palawan" Scientific Journal* on the following issues: 2017 Volume 3, Issue 1 (left); 2018 Volume 4, Issue 1 (center); and 2019 Volume 5, Issue 1 (right).



Figure 91. Cover pages of the “Our Palawan” Scientific Journal on the following issues: 2020 Volume 6, Issue 1 (left); and 2021 Volume 7, Issue 1 (right).

Meanwhile, the first publication of the State of the Environment of Palawan was released in 2004, and five years thereafter: 2009, 2015 and 2020 editions (see **Figures 92-93**). The 2020 edition was finalized in 2021 for distribution to partners and local government units (LGUs). The report is a compendium of the latest scientific information on Palawan’s natural resources, as well as the environmental issues currently faced by the province.

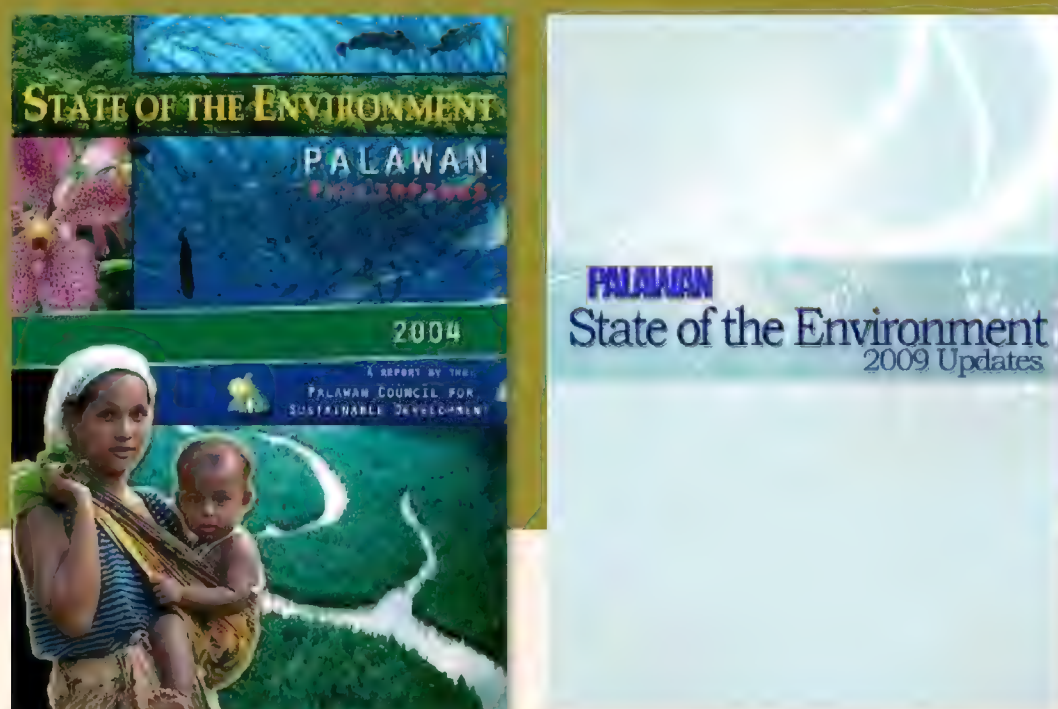


Figure 92. Cover pages of the State of the Environment of Palawan Reports: 2004 Updates (left) and 2009 Updates (right).

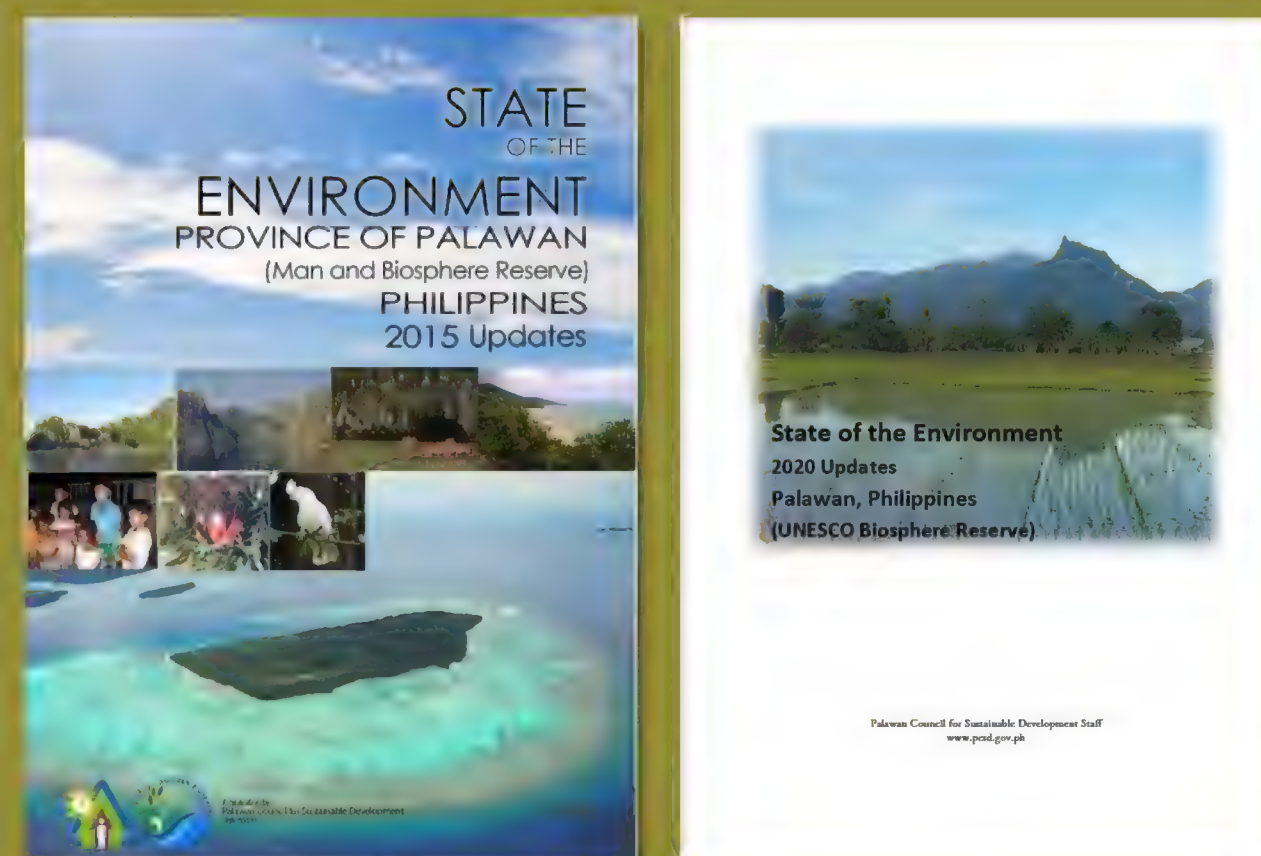


Figure 93. Cover pages of the State of the Environment of Palawan Reports: 2015 Updates (left) and 2020 Updates (right).

C. Policy and Implementation Issues and Actions Taken

Presented in **Table 9** below are the policy implementation challenges and corresponding actions taken to address such.

Table 9. List of Implementation Challenges encountered by PCSDS, with corresponding actions undertaken, in 2021.

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
ORGANIZATIONAL DIRECTION		
Need to disseminate to concerned staff any policy concerns arising from the council meetings	In support of policy formulation, OED will consolidate the policy concerns of the Council every meeting to be furnished to the concerned unit for appropriate action	Every after meeting, the policy concerns that need supporting studies/review are distributed to concerned staff/ divisions (e.g., amendment of PCSD Resolution No. 05-250; AO6, PES)
Request for additional plantilla position	<p>The DBM has an outstanding policy of scrap-and-build process instead of creating new positions.</p> <p>There is the need to review the 2006 PCSDS rationalization plan as the basis for requesting additional plantilla positions</p> <p>Submit a request for plantilla position after the enactment of the amendments to the Wildlife Act</p> <p>The need to study the positions to be requested with emphasis on critical positions such as IT, Enforcement and ECAN</p>	Special Order No. 48 was issued for this purpose creating a working team for the purpose. The team is now in the process of consolidating the recommended amount of MOOE to be transferred to Personal Services. In conjunction with this, the Competency Manual is being finalized as the basis for identifying the priority positions to be requested by phases.
Preparation for non-continuance of Contract of Services (COS) positions by 2022	Divisions need to identify special projects to absorb the need for COS positions.	All divisions should prepare and be ready for this development. The OED is ready to approve any viable proposal on this from the concerned divisions.
Filling – up of vacant positions and staff hiring	Management policy is to fill up positions from bottom to up, not from lateral sources	The management will prioritize movement from the ranks to boost the morale of qualified personnel.
The OPCR/IPCR tend to focus on quantity rather than quality, sacrificing the quality of delivered outputs	Need to come up with better metrics of rating to measure the quality of outputs	
PCSD is being excluded in PAMB Management considering PCSD is a key stakeholder.	ED Matta will make representation with concerned USECs in the DENR	The PCSDS is regularly invited as a member of the PAMB, however, it is not clear if the PCSD is a part of the Executive Committee.

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	Come up with a draft bill to be given to Congressmen for individual PAs	
The COMELEC Office occupying part of the Taytay office building is antagonistic with the PCSD Staff	ED Matta will handle the Taytay staff house occupancy concerns with COMELEC	Prevailing issues still experienced
Nature of Contract of Service Staff	<p>Need to be output based</p> <p>EMED can assist in the selection particularly for the GIS staff</p>	GIS staff was hired, utilizing the EPRPD budget
No GIS assigned in DMO North	Hire one GIS Staff for DMO North	GIS staff was hired utilizing the EPRPD budget
COMPLEMENTATION, COMMUNICATION, AND FEEDBACK		
Enhanced 2nd Quarter Collaboration with almost all units	Concerned units need to pick up specific areas from the EEED Plan	<p>Divisions (under the ECAN Operations Services) and AFD have implemented their respective task on various IEC activities, advocacy, and conservation campaigns</p> <p>Collaboration with other divisions was evident as concerned divisions were able to accommodate IEC-related requests</p>
Need to increase viewers reached especially for those who have no access to social media	Need to continue the production of PCSD Updates, especially for those who have no access to social media	Distribution of PCSD <i>Updates</i> and brochures to participants during IEC activities in remote areas such as Española, Narra, and Bataraza
Increase popularization/ dissemination of research and monitoring results	<p>Need to popularize information/knowledge generated from research, studies, and monitoring activities for wider dissemination</p> <p>Data on the environmental condition of the province transmitted to partner agencies need to be carbon copy to the DENR Bureaus up to Secretary and Usec. Offices.</p>	<p>Monitoring reports on Water Quality were furnished to concerned LGUs</p> <p>PKP website has been improved, and updating/uploading of shared research by PKP partners is on-going</p> <p>Draft Guidelines on the implementation of PES in Palawan were submitted to ENRC which subsequently presented the same</p>

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
		<p>to the Council.</p> <p>Presentation to EZMED, EPRPD, DMOs, and EEED for awareness, a better understanding of the data, and policy implications.</p> <p>Presentation to PCSD, City Council, and other LGU for awareness, a better understanding of the data, and policy implications</p> <p>Mainstreaming thru EEED</p> <p>In-house research was formally transmitted to the Office of the Executive Director (NCA-SD Unit), for publications through the PCSDS platforms (PKP website, Our Palawan Journal)</p> <p>The PES Policy was elevated to the council level and was approved for provincial-wide implementation.</p> <p>State of the Environment of Palawan transmitted to partner agencies for further inputs and comments</p>
Need to review complementation arrangements of different units (activities covered and fund charging)	<p>Need to revisit the targets of each division, especially those that are DMO's functions (JFPR monitoring, ECAN updating, ECAN scorecard, ICCA lodged in EPRPD) and focus on agency planning, resource management planning, and policy formulation</p> <p>Need to review complementation activities with DMO functions (e.g., ECAN Updating, ECAN Scorecard), which can be undertaken by DMOs but should</p>	<p>DMO South to implement the JFPR monitoring; funds c/o EPRPD</p> <p>ECAN map updating – funds to be allocated by the EPRPD based on the work plan submitted by the concerned DMO</p> <p>Budget for these activities will be proposed for re-allocation to other divisions in the succeeding year</p> <p>DMO Staff to facilitate the collation</p>

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	<p>be funded by the EPRPD funds</p> <p>Complementation/ synchronization meeting to be done between DMO and EPRPD</p>	<p>of EZ scorecard MOVs; EPRPD to do the verification of all submissions. Staff specifically hired for the EZ scorecard (stationed at DMO North) will be conducting fieldwork if necessary</p>
Delay in the attainment of ICCA Target due to transfer of staff to other division	DMO Calamian can hire additional staff to unload partial work from EnP Dacillo to be able to provide service to EPRPD and accomplish the ICCA study.	The ICCA study was contracted out; ongoing fieldwork activity
The need to fast track the acquisition of the ICT items for 2022	EPRPD to provide a list of approved 2022 ICT items and budget to all divisions	FY 2022 list of ICT items provided to all divisions; ICT items are included in the Early Procurement Activity (EPA) of the BAC
Relying on trends in setting the target, and not in the new normal situation	<p>Resort on catch-up plan or realignment of plans</p> <p>Recalibrate basis of trend-setting factoring in the last 2 years with COVID-19 situation as bases of 2022 targets (e.g. Issuance of SEP Clearance)</p>	Catch up plan was formulated and submitted
Clarify the complementation of activities with the DMDs.	Specify the activities needed from the DMDs.	
The need to strengthen collaboration with the other units	The EMED is open and inviting collaboration with the other units especially with the EZMED for research studies such as for the Mercury contamination in humans and wildlife in Sta. Lourdes	
ADMINISTRATIVE		
Difficulty in retrieval/ storage and disposal of office files	<p>201 files and other HR files are now being scanned and stored on the server which can be viewed or downloaded at home</p> <p>Scanning of paid vouchers and other necessary reports</p> <p>Create a committee that will develop a decision criterion on</p>	<p>201 files are 100% scanned; continuously scanning other HR files for easy viewing/downloading.</p> <p>201 files are now 100% scanned and transferred to expanding envelopes for easy retrieval and filing.</p> <p>On-going scanning; completed October 2021 docs</p> <p>Opted to make an extension of the</p>

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	<p>document disposal</p> <p>Documents lodged in PSDTI, Irawan will be deposited in a container van pending inventory and decision for disposal. Vacated space than can be utilized by the EEED</p> <p>There is already a GRDS (General Records Disposition Schedule) common to all government agencies, s. 2009, Annex of NAP GC No. 1, s. 2009, but PCSDS has to make its own RDS (Records Disposition Schedule) based on GRDS. Thus, inventory of Records is a prerequisite.</p>	<p>carpentry house for storage for this purpose</p> <p>EEED is now using the vacated area for its tarpaulin printing machine</p>
Delay in the delivery of procured items	Engage PCSD partners (organizations and LGUs) that offer assistance in shouldering some expenses	Partnership/ collaboration with Pilipinas Shell Foundation, Inc, included the provision by the PSFI of IEC materials and tokens for FY2022 (wildlife booklets, advocacy T-shirts, tumblers, Pangolin mascot, etc.)
The need for additional working space/building	<p>ED Matta will be working on securing funds from both the government and private sectors (with Php3M commitment from a private individual). Continuous lobbying will be made with the legislative body of the Province and other concerned government offices.</p> <p>We have a lot of room for improvement to show to the world that we are one of the best agencies in the world and prove to them that once we request funds, they cannot say 'no' to us.</p> <p>PCSDS needs to continue the good work and team-up. Even with politics, we still need to work together as a team.</p>	Request for inclusion of Php130M is now being reviewed by both houses in Congress. This will provide an additional building that would ease up the current space requirements of the office.

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
manual printing/ email of sending rating forms delays the PSB deliberation process	Google forms, Google excel, and Google Docs are now used in rating forms that automatically computes and appear on the main assessment sheet	
Difficulty in consolidation/gathering of forms/ gathering of staff information	Google forms are now used to gather information easily and directly, e.g., Vaccination Masterlist	
Untimely submission of DTRs cause delays in consolidation and submission to COA	Strict implementation of the Memo and follow up to concerned staff	Approximately on an average of 50% are compliant with the 5 days submission.
Continuing inventory of ICT supplies and equipment and the processing of the new request.	Inventory first of existing ICT supplies and equipment per division before processing new requests.	Inventory conducted with each division's focal; results will be communicated with ISSP focal
Absence of supplies monitoring system (e.g. stock carding at the division level)	Use of Logbook	IOM re: submission of inventory by division supplies are managed by end-users
Implementation of No-touch "logging in"	Face recognition biometric attendance system	2 units delivered and accepted already. The IT is currently programming the system to be implemented by January 2022.
Delayed acceptance of ICT by end-users causing delays of the use of equipment leading to delayed payment to suppliers	<p>Property to assess the use of ICT equipment. This must be considered in the approval</p> <p>Non- or delayed submission of end-users with the complete specifications</p>	<p>This will be considered for 2023 ICT because 2023 has been approved already</p> <p>PCSDS-ISSP focal must work closely with the Property and Supply Unit</p> <p>Ensured already during the Pre-procurement conference on 10 December 2021 conducted by BAC and participated by all end-users/focal person of each division</p> <p>Even before the conduct of the</p>

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
		Pre-procurement conference, the Property Unit and end-users had talks already regarding ICT specs
Inefficient use of Landbank Portal (AFD)	Orient and/or educate the clients (LGUs and business sectors) regarding the payment of services using Land Bank Portal. (Payment for penalties)	Clients have a higher preference for using Palawan Pawnshop Express Pera Padala because it's cheaper Some are paying through GCASH Another option of payment will be through the Paynamics Payment Portal
Need to document the Zero-carbon cottage before it fully deteriorates.	The need to maintain the cottage and part of our agreement with the financing organization is its sustainability The need to identify until when will we maintain the cottage. Maybe we can document it so that people can also see it without an actual visit to the site To be discussed after the Midyear	On-going documentation by the EEED
Continuing use and maintenance of generator sets	Generator Set Operation needs a permit to operate and ECC from the DENR. This needs further discussion with AFD to be assisted by EMED Need to assist AFD in securing a permit to operate and ECC from the DENR for the operation of generator sets Need to have new registered PCO(s). One PCO per generator set is required by DENR. Though AFD will do a representation if one PCO for PCSD will be allowed	AFD can apply as a new applicant for the operation of Genset alone, but after a year it can only renew its permit once the Environmental Laboratory has complied already with the requirements for its expired permit. Thus, opted not to pursue the application for Genset For FAD to identify and recommend a new PCO out of the existing "General Services" or "Maintenance Staff"
Non-accreditation of PCSDS Environmental Laboratory due to non-compliance of the "Building/Structure" to DENR-EMB standards.	Integration of Environmental Laboratory with the planned Forensic Laboratory Repair of the existing guest	PR for repair is submitted to BAC and posted (amounting to 314K). Twice submitted, 1 st for labor-only contracting (supplies & materials procurement by Admin), but later

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	house/cottages as temporary space to house laboratory equipment	on, adjusted to procurement by an entire lot since there appears no taker for labor-only (the previous contact by FAD staff Kristoffer Lajato no longer responded) PR submission was gravely affected by the late preparation of the requested Scope/Program of Work (POW) requested from FAD staff Kristoffer Lajato
Ensure the continuing operation of the PCSDS Environmental Laboratory	Secure a Certificate of Authority to Operate Chemical Laboratories in compliance with RA 10657 Compliance to minimum requirements on building and staff requirements of the laboratory Additional permanent staff to be assigned in the laboratory Laboratory staff to be trained and focused on the analysis of samples/collection of samples since one lab analyst was reassigned and 1 is about to retire this year	Will be facilitated once the new building for the "Environmental and Genetics Laboratory" is constructed Will be addressed with the identification of additional plantilla positions
Handling and disposal of Cyanide at DMD Calamian	EMED to assist in the handling and disposal of confiscated sodium cyanide currently stored at Coron Staff house through Dr. Faith Perez, PCSDS Chemist Follow up staff with assignments for disposal of cyanide (CAO L. Lagrada & Mr. M. Cabrestante Jr.)	Proper storage has been recommended pending the retrieval for proper disposal. AFD already requested the procurement of materials for the construction of the cyanide enclosure at DMO Coron To date, supplies for this enclosure are not yet delivered Drums, where the Cyanide was placed, are still exposed to the elements
Programmed hiring of on-contract staff need to be facilitated	Facilitate the engagement of the identified service	JO personnel hired

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
Slow Internet connection	<p>Install reliable providers such as PLDT, Globe (LTE)/ Fiber</p> <p>Have backup wi-fi from various networks; Use mobile data. Data usage is always maximized, and additional data limits would be very helpful if allowed</p> <p>PCSDS to request from the telecommunication company for the installation of additional towers/repeater in areas with weak or without signal including Barangay Sandoval, Roxas.</p> <p>Utilize savings under ICT CO to be used in purchasing satellite discs for the new office</p> <p>Implementation of Department of Budget and Management (DBM) Circular No. 2021-7 dated July 1, 2021 (Guidelines on the reimbursement on internet and mobile data subscription expenses of government employees given the adoption of alternative work arrangements due to the COVID 19 pandemic)</p>	<p>PLDT Fiber Optic has been installed in Quezon. Application for Brooke's Point is being processed.</p> <p>The slow internet connection continues to be a problem that affects staff productivity.</p>
Absence of Security Officer in DMO Quezon	Install CCTV Camera	Coordination with IT Unit is in progress.
Need for the repair and maintenance of DMO Office in Quezon, Brookes Point and Aborlan	Schedule repair and maintenance	Accomplished
Delay in the delivery of supplies (CSE and Non-CSE/ICT) and procurement of Other Supplies for WMF	Early procurement; More diligent staff for procurement; BAC and/or Supply to inform Divisions of the status of their procurements through email and/or post in the bulletin board for procurements	<p>The Procurement Unit must update the divisions on their respective procurements</p> <p>Delivery is still delayed</p>

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	and deliveries	Our 2020 procurement (beds for the Coron Staff house) is still undelivered
L&D for the Calamian was not 100% undertaken as scheduled since the staff to attend training have resigned and that Supervisory/Mgt level training was not yet approved by the PDC	<p>DC to convene regularly</p> <p>HR Unit to inform divisions of policies related to training and if they will shoulder the registration fees</p> <p>Clarification if there a policy that even without the PDC, the divisions can proceed with the training if based on their L&D? this should be cleared</p>	
Some requested supplies, such as ram upgrades for desktops, are not compatible with the device intended for upgrade	Perform compatibility checks on the devices to be upgraded and the upgrades presented by the winning bidder	The ram upgrade for the new desktop in Coron is not compatible with the system, the desktop does not boot up when the ram upgrade is installed
FIELD OPERATIONS		
Radio station Franchise	<p>There is a need to have a wider reach of our radio coverage, preferably all over the province.</p> <p>No urgent need to strive for wider coverage unless the permit to operate is first settled by securing the authority of NTC for the appropriate equipment.</p>	This issue should pertain to EEED.
Implementation of online payment to complement the online permitting	Disseminate to LGUs Re: Landbank Payment Portal	<p>Posted at the PCSD website</p> <p>Online payment portal of Paynamics will be integrated with the BRAIN online permitting system (with PCSD approval thru a resolution authorizing ED Matta to enter into a contract with Paynamics)</p>
Maximize Participation in virtual events	Brainstorm ways how to creatively engage the audience during the event. Provide a token for joining the event. Encourage PCSD Staff to support and monitor the virtual events. Utilize virtual spaces to disseminate IEC materials like	<p>Maximized the use of zoom platform (breakout sessions, "virtual classroom")</p> <p>To secure the active participation of the audience, we introduced</p>

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	downloadable content (newsletters, brochures, coloring pads, puzzles, or komiks-style storybooks)	wildlife-related online games via Kahoot Tokens (wildlife keychains- kiddie and wildlife savers) were distributed PCSD staff extended support/ assistance by attending/ participating in virtual events/ activities (virtual Ating Alamin, conservation campaigns Livestream) Reference materials, including Newsletters, conservation campaign videos, and infographics, which were used/ presented during virtual events, were made accessible to the participants
Limited staff mobility considering health & safety protocols	The possible remedy could be longer time allowed for project extension, specific for the conduct of mercury contamination field research Google Earth and other free and downloadable satellite images were accessed to complement the need for GIS fieldwork Review the parameters for assessment of Zero Carbon and Green Building, for subsequent use when the restrictions are lifted, affecting Zero Carbon Resorts assessment and awards by non-operation of tourism-related establishment, and strict health protocols. Additional manpower to handle	The extension has been requested Use auxiliary or proxy data generated by google earth We prepared and submitted 2 technical reports: 1) "Zero Carbon Resorts Award – Review of Criteria for Assessment (June 2021) and "Recommended Key Indicators for the Zero Carbon and Green Building Assessment" (October 2021). Accomplished (DMO South)

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	other online transactions (Doc. Tracking System) Strategize schedule of inspection/evaluation with the proponent Orientation for Front liners with the project requirements Use alternative ways such as zoom, webinars; leverage on activities by partners; practice activities with strict implementation of COVID safety measures; regular antigen tests; limit face to face contacts with clients Adjust WFP targets provided that justifiable reasons were considered	Accomplished (DMO South) Accomplished (DMO South) Due to intermittent signals in our respective municipalities, the LGUs/ECAN Boards do not want Zoom Meetings. Face to face meetings was held subject to IATF restrictions (DMO Calamian) Targets stated in WFP were adjusted.
Absence of Wildlife Traffic and Monitoring Officer (WTMO) in Narra and Aborlan as support staff	Hire and assign WTMO and WEO in Aborlan and Narra Palawan	Coordinate with EZMED.
Handling of Legal issues encountered by District Staff	DMO staff to conduct Environmental Monitoring and Inspection To forward the recommendation to the Legal Unit Legal Unit to handle Legal Issues	Accomplished
Difference between the City ECAN Map and the PCSD approved map.	DM South will make the necessary representation with the City Government (i.e. Planning Office) with regards to the synchronization of the PPC ECAN Map and present the status to the management within the 3rd quarter	ECAN Zone Map Updating is in progress (Technical evaluation/validation team conducting the ECAN Map validation on December 10, 13,14,16, and 17)

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	ECAN map realignment will be pursued in time with the PPC Government's revision of the CLWUP	
Victoria Anepahan Mountain Range (VMAR) MOA needs an update for follow up	Finalize the VAMR MOA to facilitate immediate signing	Waiting for NCIPs response to PCSDS' letter inquiring if FPIC is a requirement
The need to facilitate activities and deliverables	Need to do persistent follow up with fewer formalities using informal channels with regards to inter-agency and inter-municipality collaboration to speed up actions and see results	Accomplished
The need to schedule an urgent task to be on track with deliverables	Prioritize and program urgent tasks to be on track with deliverables	Accomplished
Activities that need downloading from Planning to DMD need to be reflected in the catch-up plan	Synchronization meeting with DMD in the preparation of the catch-up plan	Accomplished
Guide the DM-South on ECAN updating for PPC	EPRPD needs to collaborate with DM-South on ECAN updating within their area of jurisdiction.	Accomplished
Need to send management-level staff to PPC meetings that can contribute to issues.	Preparation of a Special Order (SO) composed of all the division heads and DM Chiefs to work as a team to improve PCSDS engagement with the PPC Government. PPC meeting attendees need to be armed with information. Need to plan to have a strategic stakeholder plan to handle PPC Government Need to formulate a good strategy as far as the city is concerned To consider a separate DMO for PPC (ED TJ Matta)	Accomplished (Additional personnel was assigned to DMD-South; John Vincent Fabello, Jesus Bream, and John Martin S. Caligdong).
Monitoring of wildlife policy implementation is limited due to lack or insufficient WEO/WTMUs in Coron, El Nido, and Taytay	EZMED to deploy additional manpower for the ports and airport in Coron, Taytay, and El Nido/ charge 1 more WTMO in Coron airport to DMD Calamian; EZMED deploy 1 WEO per DMO	DMD Calamian sponsored 1 WTMO for Coron Airport Need for additional WTMO for Culion and Linapacan Ports as there are boats directly going to

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
		Manila For Taytay, some traders from island barangays directly ship their products to Manila
Frequent brownouts in Coron, Taytay and El Nido.	Backup files; always 'save works' when using computer; Utilize the setting to automatically save documents at regular intervals; Procure high powered UPS	The high-powered UPS the DMD procured proved very useful. Backup files are also in the QNAP Some files have been backed up to Google Drive as it is faster than the QNAP and more user friendly
Political influence and/pressure in some project/s including unseemly requests; some clients seem used to giving monetary/in-kind objects even during official undertakings	More immersion activities with the LGU to influence PCSD policies; Keep moral standards; strictly implement NO GIFT POLICY	The current Calamian DMD Management strictly adheres to the NO GIFT POLICY and positive feedback was already heard. Some negative feedbacks state as follows "dapat tinatangal na yan ni director dito, hindi mapakiusapan" DMD staff strictly refuses all monetary offerings during inspections/validations/ monitoring activities (from 2021 alone – there are at least 10 monetary offerings and countless in-kind offerings of which all were politely refused, and the staff explains that serving the public is our duty.
BRAIN system always lagging; clients complain about having a hard time attaching documents; not all permits online	Improvement of BRAIN system , the developer should fast track its update given that the BRAIN is also getting slower with compounding applications It was noticed that the more applications that are processed in a single session, the slower the browser becomes until the cache is cleared, after which the system	Some updates were already implemented PTP is not yet included in the BRAIN. Permits operationalize at BRAIN - COR - SUP - WCP AO5/ WCP AO 12 - LTP AO 5/AO12 - WSUP AO5/AO12

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	<p>speeds up again</p> <p>Operation of the BRAIN System, Additional permits already in the system but not yet tested for it to be operationalized. Practicing manually for other permits</p> <p>Facilitate inclusion of other permits in the BRAIN System</p>	
Concerns on the escalating issue on the indigenous people's CADT in the Calamianes	<p>ED Matta will be issuing an IOM creating a working team to handle the IP concerns in the Calamianes.</p> <p>Additional staff needs to be hired for DMD – the Calamian to be mentored by Cyril. This way, Cyril can also be engaged in IP and socio concerns in the mainland.</p>	Staff assigned to handle this assignment already resigned
Proponents always following up – EZC (there are delays in the review of the EZC and release as the process is only 3 days, 2 hours, 50 minutes as per PCSDS Citizen's Charter)	EZMED to hire additional manpower to only work on reviewing EZCs and SEP Clearance applications Arrangements for the inclusion of EZC Applications in the BRAIN System must be discussed, especially regarding the staff assigned to review the applications before receiving them	EZC Applications have yet to be added to the BRAIN System
Resignation of staff as the station is in Coron and the need to train again the new staff	The need to find or hire staff that are from Coron or are much willing to be assigned in Coron who are as competent	A potential GIS staff has been found but more discussion is needed
Need for additional WMTUs in Linapacan, Culion, and Busuanga as there are vessels already directly traveling to Manila from these municipalities	EZMED to allot budget for the hiring of additional WTMU	
Varied implementation of LGUs on health protocols	Educate the stakeholders/clients on the use of any available digital platform	<p>Clients are applying for permits online through BRAIN.</p> <p>Meetings are conducted online or</p>

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	Prioritize vaccination	<p>in hybrid form (virtual and F2F).</p> <p>LGUs are gradually opening their borders</p> <p>All DMO North Staff are fully vaccinated</p>
No GIS staff assigned in DMO North	The hiring of GIS assigned in DMO North	GIS staff was hired, EPRPD budget
Issues on DTS itself /implementation a) documents for staff information, no need for a reply, and reply to just acknowledge receipt of documents – replying to these documents consumed time.	Forward the documents to the concerned staff outside the system or just put them for your info. No reply/output is needed	
The number of days given in the Document Tracking System (DTS) within which staff is required to complete a specific task are, in some cases, not consistent with the number of days given in the Citizen's Charter.	Continuously develop the DTS program	Conscious and continuous tracking of time provided in the Document Tracking System (DTS) is made.
Short notice before the ARTA deadline of the forwarded documents in the DTS	<p>Alert the system to notify the concerned staff at least 3 days before the ARTA deadline.</p> <p>SMS alert to the concerned staff informing them that a document was forwarded to their respective DTS account. A link may also be provided in the said SMS to allow the staff to directly check the document's details.</p>	Alert system yet to be developed with the assistance of the IT Staff
Dissemination of water quality (WQ) results of LGUs within their jurisdiction	<p>EMED will furnish copies of WQ results of LGUs within their jurisdiction</p> <p>Furnish DMDs copies of reports</p>	

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
	given to LGU.	
MOA on EBN collection	The need to review and revisit the Caves IRR (AO No. 08) before discussion with municipalities MOA per municipality to be reviewed	
Safe Water Project priority areas	Encourage LGU to request Safe Water management for the inclusion of their local sites in the priority areas of the project	
Projects in UPF were given CNC, without SEP Clearance.	Waive the tenurial instrument as a requirement for SEP Clearance and EZC for projects in island municipalities like Dumaran and Araceli whose lands are classified as UPF, within commercial zones of the CLUP, and within multiple-use zones of ECAN. Mayor's Permit, Fire Safety Permit, and other permits with tax declaration as proof of ownership were provided	
Decline in the number of apprehensions	Conduct investigations based on reports from the district Management Office and other informants Employ alternative means of investigation such as monitoring illegal activities through social media or areal analysis using satellite images/maps	The reports from District Management Office and other informants were utilized for case evaluation and investigation. Monitoring through social media was strengthened and utilization of Sumbong features of BRAIN was reinforced. Selected EZMED Staff underwent drone training/s
Different preferences of the staff or members in the conduct of hearings or meetings	Continue the conduct of a hybrid way of meetings/hearings. Face-to-face engagements may be had as long as required health protocols are followed.	Funds were allotted for the subscription of the Zoom platform to continuously hold the hybrid way of meetings and hearings.
Limited opportunity to conduct lectures/training	Conduct a "hybrid" way of conducting lectures	Law enforcement and investigative writing training were held through the Zoom platform which allowed and provided easy access to the information, ideas, and messages with all the participants.

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
The flow that can make work fast may be missing	Ensure constant communication with staff through a social networking group	Communication through social media sites (e.g., Facebook Messenger, Gmail, Yahoo Mail) is continuously used.
Mental health issues of staff may increase	Creation of programs by the Human Resource Division which may help address mental health issues of staff which may be caused by the pandemic	EZMED staff attended virtual lectures/seminars which address mental health issues (e.g., Ating Alamin Session: Healthy Lifestyle and Stress Management last November 23, 2021)
Staff may be required to render longer or lesser hours of work because of the Work-from-Home (WFH) arrangements	Proper monitoring of tasks	Brief regular virtual meetings are regularly organized to monitor the progress of the designated task/s. One on one coaching was made
Limited number of days that staff are allowed to be physically present in the office.	Allow the staff to go to the office in case of urgent need (e.g. printing documents, looking for the documents or files needed for the WFH arrangement)	Work from the Home arrangement was adjusted.
The slow pace of response of other concerned agencies on matters related to the filing of administrative and criminal cases.	Maintain proper coordination with other agencies through the utilization of PalaWEEN	Continuous follow-up with the agencies concerned.
Failure of the Enforcement Unit to promptly provide the pieces of evidence necessary for the filing of appropriate cases	Strengthen proper coordination with the Wildlife Enforcement Unit	Focal persons who will assist the Law Enforcement Unit was designated
Delay of the Enforcement Unit to promptly provide the pieces of evidence necessary for the filing of appropriate cases	Strengthen proper coordination with the Wildlife Enforcement Unit	The officer of the day scheme was implemented to easily coordinate with the Enforcement Unit.
BUDGET AND FUND UTILIZATION		
Absence of official line for collecting services	PCSDS Official GCASH Acct	w/ GCASH acct thru the Cashier
Proper classification per	On-line encoding of actual	Acting Payroll Officer Rusela

CATEGORIZED ISSUES	IDENTIFIED/SUGGESTED ACTIONS, AGREEMENTS AND SOLUTIONS	UPDATE ON IDENTIFIED SOLUTIONS
PAP of Payroll/Remittances for PCSDS Regular Employees	payroll/remittances with PAP via google sheet with HR Payroll preparer	Suycano has been informed by the former accountant on the encoding of actual payroll/remittances and has encoded the 2021 actual and projected payroll/remittances.
Non-compliance with the agreement with PCSDS and Palawan Pawnshop on remittance of payment (AFD and Legal)	Review the agreement and look for another payment remittance service that could provide the service needed by the PCSDS (the remittance center would be responsible for remitting the payment made by the clients to the PCSDS)	Paynamics Payment Portal
Low utilization of budget	Frontload utilization for the 3rd and 4th quarters under internal arrangement Internal arrangement to allow additional staffing (e.g., Legal services)	Salary for legal staff provided to EZMED Communicated with complementing divisions to fast-track the budget utilization of target activities which budget are lodged to EPRPD (ECAN map updating, ICCA, JFPR monitoring)
Utilization of the Wildlife Trust Fund	There is the need to maximize the utilization of the Wildlife Trust Fund	Utilization of the Wildlife Trust Fund

IV. TABLES AND ANNEXES

A. Physical and Financial Performance as of December 31, 2021 (Form 1)
OFFICE: PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT STAFF (PCSDS)

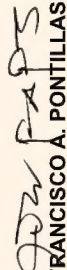
Programs/ Activities/ Projects (P/A/Ps)	PERFOR- MANCE INDICATORS	Office	PHYSICAL PERFORMANCE			FINANCIAL PERFORMANCE ('000)							REMARKS
			Target		Expense Class	Allot- ment	Obliga- tion	Disburse ment	% Budget Utilization Rate (BUR)				
			Annual Target	Annual Accom					% Accomp.	(Oblig/ Allot)* 100	(Disb/ Allot)* 100	(Disb/ Oblig)* 100	
1	2	3	4	5	6 = 5/4*100	7	8	9	10	11 = 9/8*100	12 = 10/8*100	13 = 10/9*100	14
A. PROGRAMS AND ACTIVITIES													
I. General Administration and Support Services	Number of PCSD resolutions issued	PCSD	36	39	108.33%	PS	28,350	28,325	28,325	100%	100%	100%	
						MOOE	22,363	22,079	21,959	99%	98%	99%	
						CO	5,238	5,059	5,059	97%	97%	100%	
	Percentage of administrative support provided	PCSD	100	100.00	100.00%								
II. Operations													
OO: Natural resources sustainably managed													

Programs/ Activities/ Projects (P/A/Ps)	PERFOR- MANCE INDICATORS	Office	PHYSICAL PERFORMANCE			FINANCIAL PERFORMANCE ('000)						REMARKS	
			Target		Expense Class	Allot- ment	Obliga- tion	Disburse ment	% Budget Utilization Rate (BUR)				
			Annual Target	Annual Accom					% Accomp.	(Oblig/ Allot)* 100	(Disb/ Allot)* 100		(Disb/ Oblig)* 100
1	2	3	4	5	6 = 5/4*100	7	8	9	10	11 = 9/8*100	12 = 10/8*100	13 = 10/9*100	14
	1. Average score of all ECAN zones	PCSD	50.92	34.49	67.73%								Targeted by end of the year. Indicator refers to the average score from the ECAN Zones Scorecard of the 24 local governments. Target in 2020 refers to increase in value from 2019 score. 2017 Baseline = 27.39% 2018 Score = 35.28% 2019 Score = 40.92% 2020 Score = 32.96% 2021 Score = 34.49% The decrease of average score in 2020-2021 is due to the limitations in movement of PCSD staff and partner LGUs, due to travel restrictions and community quarantine brought about by the COVID-19 pandemic.

Programs/ Activities/ Projects (P/A/Ps)	PERFOR- MANCE INDICATORS	Office	PHYSICAL PERFORMANCE			FINANCIAL PERFORMANCE ('000)						REMARKS	
			Target		Expense Class	Allot- ment	Obliga- tion	Disburse ment	% Budget Utilization Rate (BUR)				
			Annual Target	Annual Accomp					% Accomp.	(Oblig/ Allot)* 100	(Disb/ Allot)* 100		(Disb/ Oblig)* 100
1	2	3	4	5	6 = 5/4*100	7	8	9	10	11 = 9/8*100	12 = 10/8*100	13 = 10/9*100	14
	2. Ratio of total seized wildlife to total wild-sourced trade permits issued	PCSD	0.51	0.07	186.27%								Targeted by end of the year. Indicator refers to the percentage of detected trade in wildlife and wildlife products that is illegal. Target is maximum. It is computed by dividing (a) the number of total seized wildlife without legal trade permits (WS) by (b) the total wild-sourced trade permits issued (WP). Item (a) pertains to seizures of poached or illicitly trafficked wildlife. Since target is maximum, the formula for accomplishment rate is as follows: % Accomp = [(Target-Accomp)/Target]*100% + 100% % Accomp = [(0.51-0.07)/0.51]*100%+100% % Accomp = 186%
Palawan Environmentally Critical Areas Network (ECAN) Management Program													
ECAN Zoning	Number of Environmental y Critical Areas Network (ECAN) maps updated	PCSD	4	5	125.00%	PS	2,393	2,393	2,393	100%	100%	100%	Refers to ECAN maps updated by PCSDS using GIS and through a multistakeholder and participatory process.
						MOOE CO	4,005 623	4,005 623	3,835 623	100%	96%	96%	
										100%	100%	100%	

Programs/ Activities/ Projects (P/A/Ps)	PERFOR- MANCE INDICATORS	Office	PHYSICAL PERFORMANCE			FINANCIAL PERFORMANCE ('000)							REMARKS
			Target		Expense Class	Allot- ment	Obliga- tion	Disburse ment	% Budget Utilization Rate (BUR)				
			Annual Target	Annual Accomp					% Accomp.	(Oblig/ Allot)* 100	(Disb/ Allot)* 100	(Disb/ Oblig)* 100	
1	2	3	4	5	6 = 5/4*100	7	8	9	10	11 = 9/8*100	12 = 10/8*100	13 = 10/9*100	14
Wildlife and Cave Management	Percentage of wildlife traffic monitoring units (WTMUs) that are functional	PCSD	100	100	100.00%	PS	4,417	4,417	4,417	100%	100%	100%	Refers to ratio of (a) the number of functional wildlife traffic monitoring units (WTMUs) to (b) the 15 identified strategic air and the 15 identified strategic air and sea ports. A "functional WTMU" is one that is staffed by competent and trained wildlife enforcement officers occupying a designated space within the air or sea port.
						MOOE	16,583	16,540	16,131	100%	97%	98%	
						CO	680	680	680	100%	100%	100%	
	Number of endemic species subjected to population studies	PCSD	2	2	100.00%								Refers to the number of Critically Endangered Palawan wildlife animal species, which may be found only in Palawan islands or the Philippines, studied to determine their population levels.
Advocacy, Communications and Education	Number of environmental training modules developed	PCSD	2	2	100.00%	PS	3,639	3,639	3,639	100%	100%	100%	
						MOOE	2,646	2,625	2,492	99%	94%	95%	
						CO	134	134	134	100%	100%	100%	
ECAN Monitoring and Evaluation System	Number of recommendatio n reports on site-specific resource/ecosys tem accounts prepared	PCSD	1	2	200.00%	PS	4,142	4,142	4,142	100%	100%	100%	
						MOOE	1,683	1,683	1,683	100%	100%	100%	
						CO	0	0	0				
Knowledge and Research Management	Number of knowledge products published	PCSD	1	1	100.00%	PS	1,852	1,852	1,852	100%	100%	100%	


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Programs/ Activities/ Projects (P/A/Ps)	PERFOR- MANCE INDICATORS	Office	PHYSICAL PERFORMANCE			FINANCIAL PERFORMANCE ('000)						REMARKS	
			Target			Expense Class	Allot- ment	Obliga- tion	Disburse ment	% Budget Utilization Rate (BUR)			
			Annual Target	Annual Accom	% Accomp.					(Oblig/ Allot)* 100	(Disb/ Allot)* 100		(Disb/ Oblig)* 100
1	2	3	4	5	6 = 5/4*100	7	8	9	10	11 = 9/8*100	12 = 10/8*100	13 = 10/9*100	14
Operation of SEP Clearance System	Number of SEP Clearances issued	PCSD	228	172	75.44%	MOOE PS	3,169 13,040	3,169 13,040	2,551 13,040	100% 100%	80% 100%	80% 100%	Includes the ECAN Zoning Certifications for Category C projects (while these does not require SEP Clearance, the ECAN Zoning Certification is an integral part of the SEP Clearance Policy of the PCSD)
						MOOE CO	6,411 70	6,289 70	5,786 70	98% 100%	90% 100%	92% 100%	
Resource Mobilization and Partnership Development	Number of proposals submitted to funding institutions	PCSD	1	6	600.00%	PS	1,703	1,703	1,703	100%	100%	100%	
						MOOE	213	213	213	100%	100%	100%	
Payment of Prior Year Accounts Payable						MOOE							
							123,354	122,680	120,727	99%	98%	98%	

V. PROSPECTS FOR CY 2022 AND BEYOND.

Since 2020, the COVID-19 pandemic continues to pose health threats, limit people's movements, and exhaust government resources for pandemic-related initiatives, thereby affecting the province of Palawan and the rest of the country in terms of social, economic and environmental aspects. Despite the relentless vaccination efforts of the national and local governments and even the private sector, the rise of new variants of the virus has plagued the country and its constituents. Thus, the PCSDS is obliged to adapt to the "new normal" in response to the challenges posed by the pandemic in pursuing its planned projects and activities. To attain the agency's targets and deliverables for the year and beyond, the PCSDS will implement a blend of virtual and limited face-to-face interactions with partners and stakeholders, while observing minimum health standards, especially during meetings, workshops, and consultations. Technologies and innovations from best practices of environment and natural resources management will further be gathered and utilized.

There are also the perceived impacts of the results of the upcoming National and Local Elections. With the possible changes in the national and local administrations, subsequent changes in priority programs, activities and projects are to be expected.

Furthermore, the Supreme Court ruling on the Mandanas-Garcia Case brings a new institutional arrangement between and among the national government offices and the local government units (LGUs), especially in terms of their specific roles and functions. The implementation of the ruling not only increases the budget of the LGUs, but also expands their roles in the public sector, as selected functions of the national government will be devolved to the LGUs. Although the implementation of the ruling is still in transition, it is imperative to prepare for the major changes it will bring to the government sector, as well as its impacts on the Palawan ECAN Management Program and its projects and activities.

Considering these factors and conditions, the thrusts and priorities of PCSDS for 2022 and beyond will focus on its convergence with relevant operating agencies in Palawan and intensifying the implementation of ECAN, the main strategy of SEP and its support mechanisms to contribute substantially to national security in the context of sustainable development. These include the following (see **Figure 94**):

- **Ecological Security** – involves the maintenance and protection of ecosystem services and functions to prevent disruption of supply of food, clean water, clean air, and biodiversity services.
- **Human Security** – efficient delivery of basic social services (health, housing, peace and order) to vulnerable and marginalized communities.
- **Economic security** – providing an enabling climate for a robust business and commerce, and full employment.
- **Good Landscape Governance** – includes social justice, inclusive and people-centered decision-making, climate change adaptation and mitigation, disaster risk management, and observance of zero tolerance against corruption.
- **Intensification of Advocacy, Communication, and Education** for major stakeholders and communities on environmental protection and biodiversity conservation. This includes the training and upskilling of the PCSD Workforce.

- **Promotion of Sound Investments** to Conservation and Environment-friendly Industries.
- **Review of RA 7611** to assess its relevance to current developments and social situation.

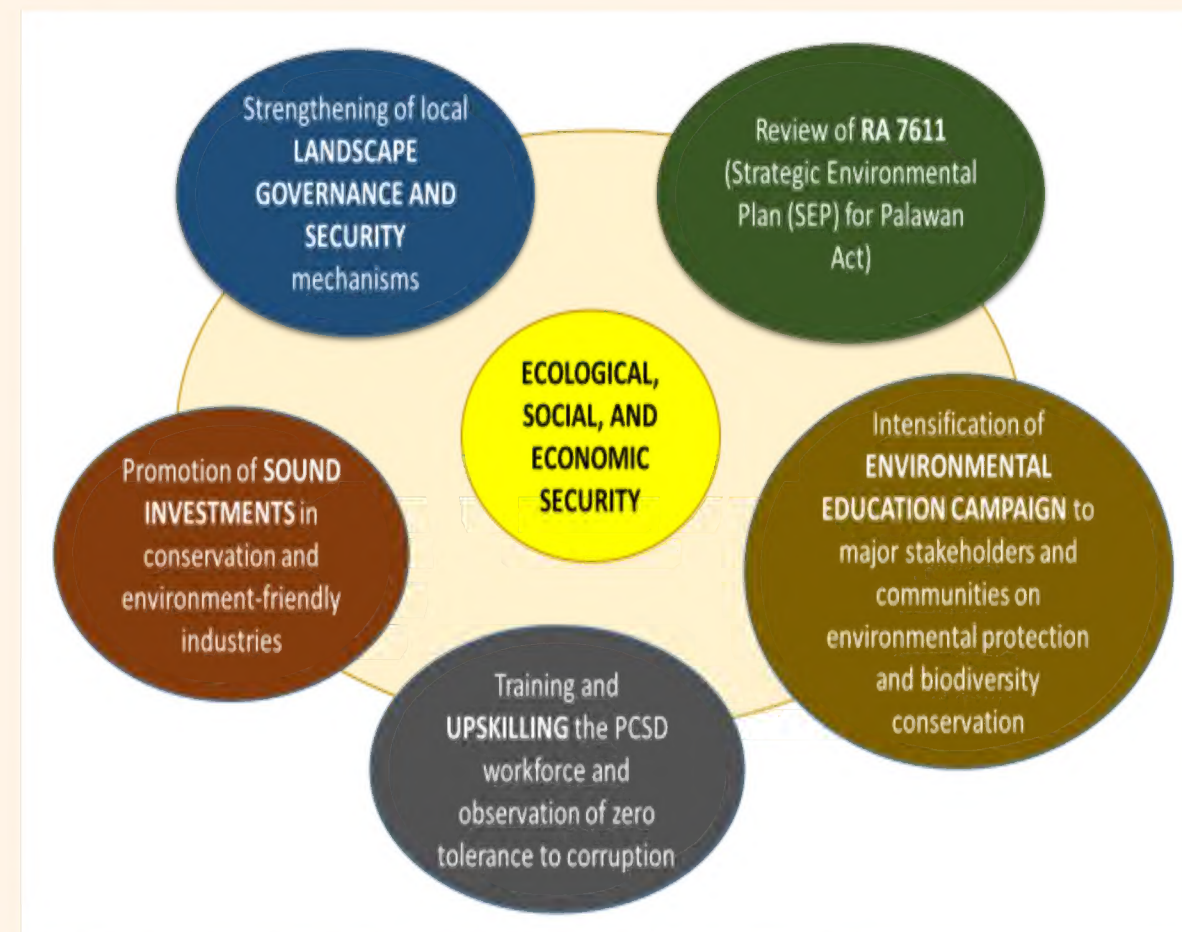


Figure 94. PCSD's Five-Year (2021-2025) Thrust and Priorities.



PCSD

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